8002-10-1 Rev. No. 0

> A9B 12/31/91

FINAL DRAFT
SITE INSPECTION REPORT
JAMECO INDUSTRIES, INC.
WYANDANCH, SUFFOLK COUNTY, NEW YORK

PREPARED UNDER

WORK ASSIGNMENT NO. 019-2JZZ CONTRACT NO. 68-W9-0051

DECEMBER 31, 1991

VOLUME 2 OF 2

REFERENCE NO. 33

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK



PHASE I INVESTIGATIONS

JAMECO INDUSTRIES, INC.
TOWN OF BABYLON
SUFFOLK COUNTY, NEW YORK
NYSDEC SITE NO. 152006



NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road, Albany, New York 12233

Prepared by:

WOODWARD-CLYDE CONSULTANTS, INC. 1250 Broadway, 15th Floor New York, New York 10001

> May 1987 82C4548-3

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PHASE I INVESTIGATIONS

JAMECO INDUSTRIES, INC.
TOWN OF BABYLON
WYANDANCH
SUFFOLK COUNTY, NEW YORK
NYSDEC SITE NO. 152006

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 Wolf Road, Albany, New York 12233

Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste

Norman H. Nosenchuck, P.E. Director

Prepared by:

WOODWARD-CLYDE CONSULTANTS, INC. 1250 Broadway, 15th Floor New York, New York 10001

> May 1987 82C4548-3

TABLE OF CONTENTS

SECTIO	<u>N</u>			PAGE NO.
1.0	SITE N	NARRA	ATIVE	1-1
2.0	U.S EN	WIROI	NMENTAL PROTECTION AGENCY DOCUMENTATION	2-1
2	2.2 2.3	Docum EPA F	ninary HRS Work Sheets nentation Records For HRS Form 2070–12 Form 2070–13	2-2 2-10 2-29 2-34
3.0	SITE D	ESCR	IPTION .	3-1
4.0	SITE D	ATA	<i>:</i>	4-1
			area Surface Features Hydrogeology	4-1 4-1
	ı	4.2.2	Ground-Water Occurrence Ground-Water Quality Ground-Water Use	4-1 4-2 4-3
4	4.3	Past S	Sampling and Analysis	4-3
5.0	ATAC	ADEQ	UACY	5-1
6.0 V	WORK	PLAN	1	6-1
		Object Field	ives Investigation Plan	6-1 6-1
	(6.2.2	Preliminary Site Investigations Geophysical Studies Monitoring Wells	6-1 6-1 6-2
			6.2.3.1 Installation 6.2.3.2 Water Elevations 6.2.3.3 Aquifer Testing	6-2 6-5 6-5
	(6.2.4	Sampling and Analysis Plan	6-5
			6.2.4.1 General Plan 6.2.4.2 Sampling Parameters 6.2.4.3 Sampling Locations	6-5 6-5 6-6
6	5.4	Report	and Safety Plan Preparation Estimate	6-7 6-7 6-7

LIST OF TABLES

TABLE NUMBER	TITLE
1	SOURCES OF INFORMATION
2	PROPOSED CHEMICAL ANALYSES
3	ESTIMATED COSTS FOR PHASE II INVESTIGATION

LIST OF FIGURES

FIGURE NUMBER	TITLE
1	SITE LOCATION MAP
2	LOCATION PLAN FOR PROPOSED PHASE II INVESTIGATION

F62/190

APPENDICES

APPENDIX	<u>TITLE</u>
A	REFERENCES
В	SUPPORTING DOCUMENTATION
C	UPDATED NEW YORK STATE REGISTRY FORM

The Jameco Industries, Inc. site is in Wyandanch, town of Babylon, Suffolk County, New York (Figure 1). Jameco is located at 248 Wyandanch Avenue at the corner of Mount Avenue and is about 0.5 mile north of the Southern State Parkway. The approximately 6-acre site consists of a large process building and offices, a warehouse, above-ground tanks, and an extensive on-site disposal system.

Jameco is an active plating facility operating at the site since 1964. Activities at Jameco include metal finishing and nickel and chrome electroplating of brass and copper plumbing fixtures. Wastes generated from these processes generally include the heavy metals chromium (total and hexavalent), copper, nickel, zinc, and iron. Other water-quality parameters are also generated from on-site processing. Solvents, particularly trichloroethylene and tetrachloroethylene, are generated from cleaning processes.

From 1964 to 1975, three large unlined lagoons were used for on-site disposal of metal plating wastes. The sludge from the chemical treatment of waste water was placed in the lagoons and the effluent was discharged to leaching pools (Pim, 1987). In 1975, the lagoons were abandoned and the sludge was reportedly excavated and hauled off site. The lagoons were subsequently backfilled with native sand and gravel. A waste disposal system consisting of 48 new leaching pools replaced the sludge ponds in mid-1975. Treatment consisted of a chemical precipitation system (Pim, 1987). Treated discharge to the leaching pools often exceeded the limits established in the facility's State Pollution Discharge Elimination System (SPDES) Permit for metals particularly. A Complaint was issued to Jameco in 1981 by the New York State Department of Law for violations of their SPDES permit and other Environmental Conservation Law infractions (NYS Department of Law, 1981).

Chemical analyses conducted on soil, sludge, effluent and ground-water samples collected on various occasions during the period 1979 to 1984 indicated contamination by heavy metals and volatile organic compounds.

F62/190 I 82C45483

6

Ground water is the sole source of potable supply for over 100,000 residents within a 3-mile radius of the site.

The Phase I effort for Jameco Industries, Inc. included: collection and review of existing data; preparation of a preliminary Hazard Ranking Score (HRS) for the site; conducting a site investigation/responsible parties interview; development of a preliminary hydrogeologic model; completion of required documentation; development of a work plan and estimated costs for further investigations at the site; and preparation of a summary report.

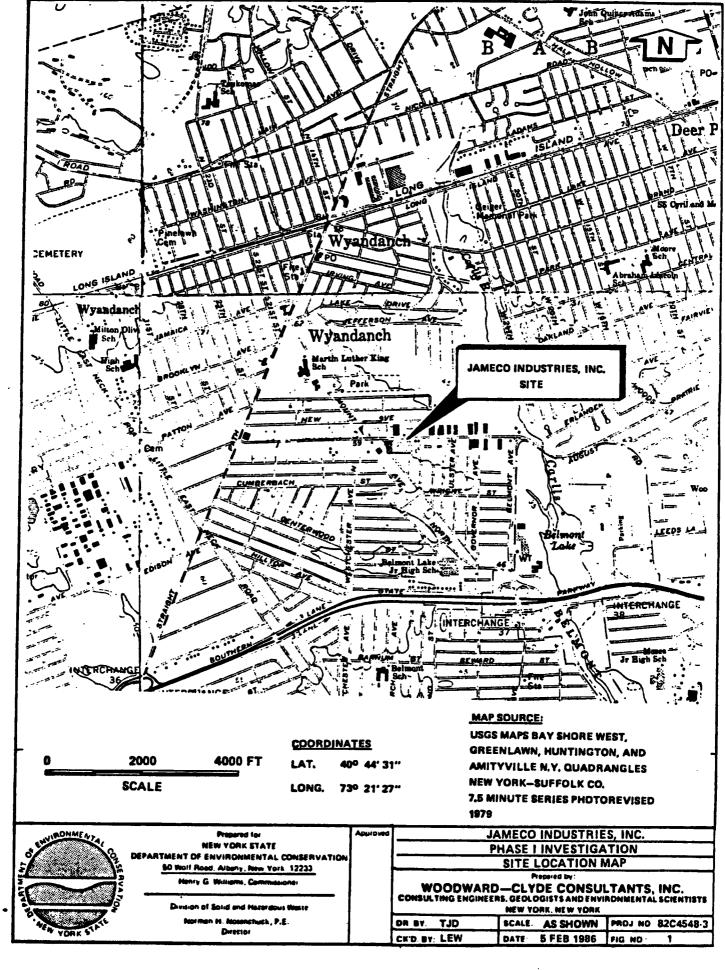
The preliminary HRS scores developed for Jameco Industries, Inc. (NYSDEC Site No. 152006) are as follows:

$$S_M = 54.32 \text{ (Sgw} = 93.33 \text{ Ssw} = 10.91 \text{ Sa} = 0)$$

 $S_{FE} = N/A$
 $SDC = 0$

The data available were inadequate to prepare a final HRS score. The Hazardous Waste Quantity score was based on estimates of discharge to on-site leaching pools and sludge lagoons. Adequate soil and ground water sampling and analysis is required to obtain more valid chemical analytical data for this site.

The Phase II Work Plan developed for Jameco Industries, Inc. is specifically designed to address questions concerning soil, ground water and air quality so that a final HRS score and conceptual remedial designs and estimated costs can be developed. We have proposed a limited geophysical survey, the installation of seven monitoring wells, soil and ground water sampling and analysis, and an air quality survey. A detailed description of the work plan and estimated costs is provided in Section 6.0.



Jameco Industries, Inc. is located in Wyandanch in western Suffolk County, New York (Figure 1). Jameco, an active electroplating facility since 1964, is located at 248 Wyandanch Avenue. The approximately 6-acre site consists of a large process building with offices, a warehouse, above-ground holding tanks, and a disposal system of 48 leaching pools.

Operations include finishing brass and copper plumbing fixtures and nickel and chrome electroplating processes. Wastes generated from the finishing, cleaning, and electroplating processes resulted in wastewater and sludge contaminated with: heavy metals including chromium (total and hexavalent), copper, nickel, zinc, lead, and iron; cyanide; volatile organics; sulfates; and various other parameters. These processing wastes were disposed of on-site in two large unlined sludge lagoons from 1964 to 1975. In 1975, sludge was reportedly removed from the lagoons which were subsequently backfilled with native sand and gravel. A disposal system consisting of 48 leaching pools replaced the abandoned lagoon system.

Inadequate maintenance of both the abandoned and replacement disposal systems resulted in occasional effluent overflow from lagoons and leaching pools. The Suffolk County Department of Health Services (SCDHS) found that discharge analyzed from Jameco Industries, Inc. exceeded the levels established in their State Pollutant Discharge Elimination System (SPDES) Permit on several occasions from 1975 to 1984. Other violations of the New York State Environmental Conservation Law include inadequate drum storage (SCDHS, 1979b) and overflow of wastewater onto the ground (SCDHS, 1979a).

Jameco is located in a densely populated residential area. Other industrial facilities are located about 200 feet east of the facility on Wyandanch Avenue. At least six schools are located within a one-mile radius of the site.

Jameco has two wells on site: a production well and a diffusion well. The Suffolk County Water Authority operates two deep municipal supply wells within 300 feet upgradient of the Jameco facility. An unknown number of private wells also exist in the site area. Chemical analytical data indicated contamination of the Jameco production well and private wells in the site area (Belli et al, 1977). Ground water is the sole source of potable supply for more than 100,000 people within a 3-mile radius of the site.

The Jameco facility is less than 0.5 mile from Belmont Lake State Park, where the Lake and Park are used for recreational purposes. Fresh water wetlands are located less than 0.5 mile from the facility boundary.

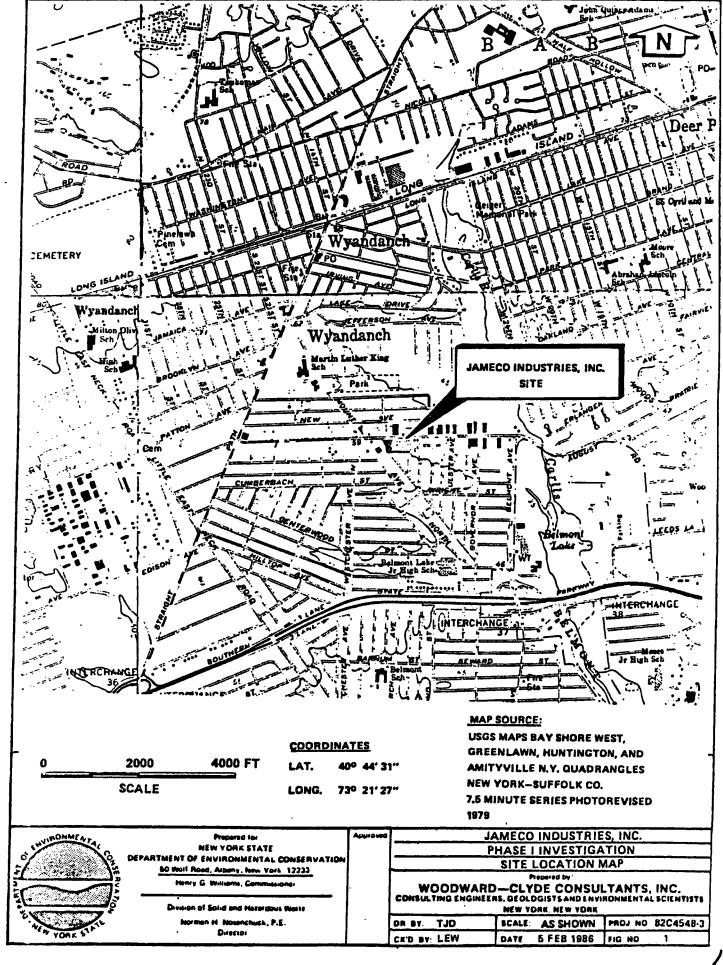
In 1981, Jameco Industries, Inc. was issued a Complaint by the New York State Department of Law.

This section includes documentation records and work sheets required to develop Hazard Ranking System (HRS) scores. In addition, two EPA forms regarding preliminary assessment and site inspection have been completed and are included as required.

Documents included in this section are:

- 1. Preliminary Hazard Ranking System (HRS) Work Sheets
- 2. Documentation Records for HRS
- 3. EPA Form 2070-12 (Preliminary Assessment)
- 4. EPA Form 2070-13 (Site Inspection Report)

Forms were prepared as completely as possible using information available from private, county, state and federal agency files/sources. Values assigned to HRS rating factors are designated with a circle or a square reflecting complete or incomplete/inadequate data, respectively. The Suffolk County Department of Health Services files and the New York State Department of Law files provided the most site specific data. An on-site survey and interview was denied by Jameco Industries, Inc. Information provided in the Documentation Records for HRS are referenced and copies of references are included in Appendix B. Sources of information on the site are listed in Table 1.



2.1 Preliminary HRS Work Sheets

Facility name: Jameco Industries, Inc.
O 40 Mary 1 Day 1 Day 200 Mary 1 Day 2
Location: 248 Wyandanch Avenue, Wyandanch
EPA Region:II
Person(s) in charge of the facility: Israel Gajer, Vice-President
Name of Reviewer: L. Wade Date:]4 February]986
General description of the facility: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
Jameco Industries, Inc. is an electroplating facility
operating at the site since]964. From]964 to 1975 wastes
generated from cleaning and electroplating processes were
discharged to on-site sludge lagoons. Waste generated include
heavy metals and volatile organic compounds. In 1975, the sludge
lagoons were abandoned and replaced by a disposal system consisti
of 48 leaching pools. Discharge from Jameco has often exceeded
limits established in their SPDES Permit. Ground water is the Scores: S _M =54.32S _{gw} =93.33S _{sw} =10.91S _a =0) primary route of concern.
SFE = N/A
Spc = 0

FIGURE 1 HRS COVER SHEET

_		Ground Water F	loute Work Shee	ì			
	Rating Factor	Assigned \ (Circle O		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release	0	45	1	0	45	3.1
		is given a score of 45, pro- is given a score of 0, pro-					
2	Route Characterist Depth to Aquifer	- / -)	2	6	8	3.2
	Concern Net Precipitation Permeability of the)	1	2	3 3	
	Unsaturated Zoo Physical State	0 1 2 3) .	1	3	3	
		Total Route Charac	cteristics Score		1.4	15	
3	Containment	0 1 2 (3		1	3	3	3.3
4	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity		12 15 (B) 4 5 6 7 (B)	1	18 8	18 8	3.4
		Total Waste Chara	cteristics Score		26	26	
5	Targets Ground Water U Distance to Nea Well/Population Served		3 8 10 20 35 40	3	9 40	9 40	3.5
		Total Targe	ts Score		49	49	
[5]		nultiply 1 × 4 × 5 ultiply 2 × 3 × 4	x 5		53508	57,330	
7	Divide line 6 b	57,330 and multiply by 100)	Sgw-	93.3	33	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

		Surface	Water Rou	te Work Shee	1			
	Rating Factor		signed Vali Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)
0	Observed Release	0		45	1	0	45	4.1
	If observed release is gi			_=				
2	Route Characteristics Facility Slope and Inter	rvening (0) 1	1 2 3		1	0	3	4.2
	Terrain 1-yr. 24-hr. Rainfall Distance to Nearest Su	0 1	23		1 2	2 4	3 6	
	Water Physical State		123		1	3	3	
		Total Route	Character	istics Score		9	15	
3	Containment	0 1	2 3		1	3	3	4.3
4	Waste Characteristics Toxicity / Persistence Hazardous Waste Quantity	0 3	3 6 9 12 1 2 3 4	15 (B) 5 6 7 (B)	1 1	18 8	18	4,4
		Total Waste	- Character	ristics Score		26	26	
5	Targets Surface Water Use Distance to a Sensitive Environment Population Served/Dist to Water Intake	ance) (0	4 6 16 16 18 2		3 2 1	6 4 0	9 6 40	4.5
	Downstream	J 24	30 32 3			10	55	
<u>6</u>	If line 1 is 45, multiply	y 1 × 4 2 × 3 ×	× 5 : 4 × [3	·	7020	64,350	•
7	Divide line 6 by 64,35	60 and multiply	by 100		S _{8W} -	10.	91	

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

			Air	Rout	Work S	heet				
	Rating Factor			signed Circle	Value One)		Multi- plier	Score	Max. Score	Ref. (Section)
0	Observed Release		0		45		1	0	45	5.1
	Date and Location	:	<u>-</u>							
	Sampling Protocol) :				. •				
		he S _a = 0. then proce			5.					
2	Waste Characteris Reactivity and	tics	0	1 2	3		1		3	5.2
	Incompatibility Toxicity Hazardous Waste Quantity		0	. –	3 3 4 5	6 7 8	3 1		9 8	
		1	otal Waste	Char	acteristic	s Score			20	,
13	Targets Population Within 4-Mile Radius	1	} 0 9 21 2	12 1	5 18 0		1		30	5.3
	Distance to Sens Environment	itive		2			2		6	
	Land Use		0 1	2	3		1		3	
			•							
			Tota	Tarc	ets Score	•			39	
4			174			· 				-
	Multiply 1 x 2	2 × 3							35,100	
5	Divide line 4 b	y 35,100 ar	nd multiply	by 10	0		Sa-	0		

FIGURE 9
AIR ROUTE WORK SHEET

	s	S ²
Groundwater Route Score (Sgw)	93.33	8710.49
Surface Water Route Score (Saw)	10.91	119.03
Air Route Score (Sa)	0.0	0.0
$s_{gw}^2 + s_{sw}^2 + s_{a}^2$		8829.52
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{s}^2}$		93. 97
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		54. 32

FIGURE 10 WORKSHEET FOR COMPUTING S_M

						//	<u>. </u>				_				
			Fire a	nd	Exp	ios	ion	Wo	rk	She	et				
	Rating Factor					d Vi		•				Multi- plier	Score	Max. Score	Ref. (Section)
0	Containment		1				. ;	3				1		3	7.1
2	Waste Characteristi Direct Evidence	CS .	0			3						1		3	7.2
	Ignitability		Ō	1	2							1		3	
	Reactivity		0	1	2	3						1		3	
	Incompatibility		_	1	_							1		3	
	Hazardous Waste Quantity		0	1	2	3	4	5	6	7	8	1		8	
		1	otal Was	ite	Cha	ırac	teri	stic	 s 8	Scor	е			20	
3	Targets Distance to Neare		0	1	2	3	4	5				1		5	7.3
	Population	31	·	•	•	•	•	٠				·		_	
	Distance to Neare	st	0	1	2	3						1	•	3	
	Building			_								1		3	
	Distance to Sensit	tive	0	1	2	3						'		. •	
	Environment Land Use		0	1	2	3						1		3	
	Population Within 2-Mile Radius		0	1			4	5				1		5	
	Buildings Within 2-Mile Radius		0	1	2	3	4	5		•		1		5	
			To	tal	Tai	rget	s S	cor	e					24	
4	Multiply 1 x 2) × [3]												1,440	
5	Divide line 4 by	y 1,440 an	d multip	ly t	y 1	00						SFE			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work Sheet				
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
0	Observed Incident	0 45	1	0	45	8.1
	If line 1 is 45, proceed to 1 is 0, proceed to 1		<u>.</u> .			
2	Accessibility	0 1 2 3	1	0	3	8.2
3	Containment	0 (15)	1	15	15	8.3
1	Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4
[3]	Population Within a 1-Mile Radius	0 1 2 3 4 5	4	20	20 12	8.5
	Distance to a Critical Habitat	0 1 2 3	•		12	
		Total Targets Score		а0	32	
6	If line 1 is 45, multiply If line 1 is 0, multiply	1 x 4 x 5 2 x 3 x 4 x 5		0	21,600	
Ø	Divide line 6 by 21,600	and multiply by 100	SDC -	0		

FIGURE 12 DIRECT CONTACT WORK SHEET

		Direct Contact Work Shee	et .			
Ra	ting Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section
① ob	served incident	0 45	1	0	45	8.1
	ine 1 is 45, proce	ed to line 2				
2 Acc	essibility	①1 2 3	1	0	3	8.2
3 Cor	ntainment	0 (15)	1	15	15	8.3
	ste Characteristics xicity	0 1 2 3	5	15	15	8.4
	gets pulation Within a Mile Radius	0 1 2 3 4 5	4	20	20	8.5
Dia	itance to a	0 123	4	0	12	
. If line	is 45, multiply	Total Targets Score 1 x 4 x 5 2 x 3 x 4 x 5		0 2	32	

FIGURE 12 DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME: Jo	meco Industries, Inc.		
LOCATION: 2	48 Wyandanch Avenue, Wyandanch, N.Y.		
DATE SCORED: 14	February 1986		
PERSON SCORING:L	. Wade		
PRIMARY SOURCE(S) OF INFORMATION (e. g., EPA region, state, FIT, etc.): Suffolk County Department of Health Services (SCDHS)			
Off-site inspection conducted by Woodward-Clyde Consultants, Inc. (WCCI) New York State Department of Law (NYS DOL)			
FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:			
See Section 5.0 - Data Adequacy			
•			
COMMENTS OR QUALIFIC	CATIONS:		

82C45483

GROUND WATER ROUTE

I. OBSERVED RELEASE

Contaminants detected (5 maximum):

None Score - 0

Rationale for attributing the contaminants to the facility:

- N/A

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Upper glacial and Magothy aquifers. Hydrogeologic data indicates hydraulic connection between these two aquifers. Where the Upper glacial aquifer lies directly on sandy beds of the Magothy aquifer, as the data indicates for this site, good vertical hydraulic conductivity exists between the two aquifers. (Jensen and Soren, 1974).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

Estimated between 10 and 12 feet (Leo M. Page, 1982; USGS Bay Shore West, NY Quad, 1979)

Depth from the ground surface to the lowest point of waste disposal/storage:

5 feet (NYS Dept. of Law (DOL), 1981).

Score - 3

F126/227B 2-12 82C45483

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

45 inches (Figure 5, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982)

Mean annual lake or seasonal evaporation (list months for seasonal):

30 inches Figure 4, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982)

Net precipitation (subtract the above figures):

15 inches Score - 2

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Riverhead and Haven Soils (sandy loam and sand and gravel). (USDA, 1975) Score - 2

Permeability associated with soil type:

Greater than 10^{-3} cm/sec (Table 2, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982) Score - 3

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Sludge and liquid. (NYS Dept. of Law, 1981). Score - 3

82C45483

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated: Surface Impoundment (sludge ponds (no liner) and leaching pools on site). (Allie King Rosen and Fleming, 1981; Leo M. Page, 1982)

Method with highest score:

Surface Impoundment (3) (Table 3, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982)

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:	Toxicity	Persistence
Nickel, chromium, lead, copper	3	3
tetrachloroethylene	2	2
trichloroethylene	2	2

(NYSDOL, undated; SCDHS, 1984; Sax, 1979; Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982).

Compound with highest score:

Metals (18)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Total estimated discharge flow is 3.675 \times 10^8 gallons Score – 8

Basis of estimating and/or computing waste quantity:

Computed from daily flow estimates for years of operation (70,000 gpd \times 5 days/week \times 50 wks/yr. \times yrs of operation (1964-1985)). (Long Island Water Resources Commission, 1964; NYSDEC, 1980).

5. TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3 mile radius of the facility: Known uses include: residential; industrial; commercial; drinking; and fire water (Long Island Water Resources Commission, 1964) Score - 3

Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply

Suffolk County Water Authority public supply wells are located on Wyandanch Ave. within 300 feet of the site. One of the on-site wells may have been used for drinking water although it is unknown whether or when its use was discontinued for such purposes. Private wells are located near the facility, but again, it is unknown whether they are being used for potable supply. (See identified water-supply wells below.) (SCWA, 1986; USGS, 1979; L.I. Water Resources Commission, 1986)

Distance to above well or building: Less than 500 feet (NYS DOH, 1982; SCWA, 1986)

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from <u>aquifer(s)</u> of <u>concern</u> within a 3-mile radius and populations served by each:

SCWA - 900,000 county-wide

Dix Hills Water District - 30,000

Private wells also exist in the site area
These wells are completed in the Upper Glacial and Magothy aquifers.
(NYS DOH, 1982; NYS DEC, 1984b)

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

(NYS Dept. of Agriculture and Markets, 1985)

Total population served by ground water within a 3-mile radius:
Greater than 100,000. (Calculated from Donnelley Marketing poopulation data for 2-mile and 4-mile radius of the site).
(Donnelley Marketing, 1984)
Score - 40

SURFACE WATER ROUTE

I. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No known surface water sampling has been conducted. Score $-\ 0$

Rationale for attributing the contaminants to the facility:

N/A

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Less than 1% (USGS, Bay Shore West, NY Quadrangle, 1979).

Name/description of nearest downslope surface water:

Belmont Lake. (USGS, Bay Shore West, NY Quadrangle, 1979).

Average slope of terrain between facility and above-cited surface water body in percent:

Less than 1% (USGS, Bay Shore West, NY Quadrangle, 1979).

Is the facility located either totally or partially in surface water?

No (USGS, Bay Shore West, NY Quadrangle, 1979).

82C45483

Is the facility completely surrounded by areas of higher elevation?

No. (USGS, Bay Shore West, NY Quadrangle, 1979). Score - 0

I-Year 24-Hour Rainfall in Inches

3 inches (Figure 8, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982) Score – 2

Distance to Nearest Downslope Surface Water

Approximately 2800 feet. (USGS, Bay Shore West, NY Quadrangle, 1979). Score - 2

Physical State of Waste

Sludge and Liquid. (NYS DOL, 1981). Score - 3

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface Impoundment (sludge ponds and leaching pools). Overflow of leaching pools reported (SCDHS, 1979a).

Method with highest score:

Surface Impoundment (3) (Table 9, Uncontrolled Hazardous Waste Site Ranking System, A User's Manual; USEPA, 1982)

82C45483

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

See Ground Water Route

Compound with highest score:

See Ground Water Route

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

See Ground Water Route

Basis of estimating and/or computing waste quantity:

See Ground Water Route

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreation - Belmont Lake in Belmont Lake State Park within one mile (USGS, Bay Shore West, NY Quadrangle, 1979). Score - 2

Is there tidal influence?

No. (USGS, Bay Shore West, NY Quadrangle, 1979)

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None (NYSDEC, 1986c)

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

 Less than 1/4 mile (1000 feet) (NYSDEC, 1986b)

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

None (NYS DEC, Division of Fish and Wildlife, Significant Habitats Unit, 1984) Score - 2

Population Served by surface Water

Location(s) of water-suply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None known (NYS Department of Health, 1982) Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

N/A

Total population served:

N/A

Name/description of nearest above water bodies:

N/A

Distance to above-cited intakes, measured in stream miles:

N/A Score - 0

AIR ROUTE

I. OBSERVED RELEASE

Contaminants detected:

Documented data does not exist.

Score - U

Date and location of detection of contaminants:

N/A

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

N/A

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

N/A

Most incompatible pair of compounds:

N/A

82C45483

Toxicity

Most toxic compound:

N/A

Hazardous Waste Quantity

Total quantity of hazardous waste:

See Ground Water Route

Basis of estimating and/or computing waste quantity:

See Ground Water Route

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi

0 to 1 mi

0 to ½ mi

0 to % mi

183,635

13,794

3,842

(Donnelley Marketing, 1984).

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

See Surface Water Route

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

2-22

See Surface Water Route

82C45483

Distance to critical habitat of an endangered species, if I mile or less:

See Surface Water Route

Land Use

Distance to commercial/industrial area, if I mile or less:

Approximately 300 feet (USGS, Bay Shore West, NY Quadrangle, 1979).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Approximately 2000 feet (less than 0.4 mile) (USGS, Bay Shore West, NY Quadrangle, 1979).

Distance to residential area, if 2 miles or less):

Adjacent (USGS, Bay Shore West, NY Quadrangle, 1979).

Distance to agricultural land in production within past 5 years, if I mile or less:

N/A (NYS Department of Agriculture and Markets, 1985).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A (NYS Department of Agriculture and Markets, 1985).

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

No (NYS Office of Parks, Recreation and Historic Preservation, 1984)

FIRE AND EXPLOSION

I. CONTAINMENT

Hazardous substances present:

See Ground Water Route

Type of containment, if applicable:

- N/A

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

N/A

<u>Ignitability</u>

Compound used:

N/A

Reactivity

Most reactive compound:

N/A

Incompatibility

Most incompatible pair of compounds:

N/A

2-24

F126/227B

82C45483

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

See Ground Water Route

Basis of estimating and/or computing waste quantity:

See Ground Water Route

3. TARGETS

Distance to Nearest Population

Adjacent to site; within 200 feet. (USGS, Bay Shore West, NY Quadrangle, 1979).

Distance to Nearest Building

Less than 200 feet (USGS, Bay Shore West, NY Quadrangle, 1979).

Distance to Sensitive Environment

Distance to wetlands:

See Surface Water Route

Distance to critical habitat:

See Surface Water Route

Land Use

Distance to commercial/industrial area, if I mile or less:

See Air Route

82C45483

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less: See Air Route

Distance to residential area, if 2 miles or less:

See Air Route

Distance to agricultural land in production within past 5 years, if 1 mile or less:

See Air Route

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

See Air Route

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

See Air Route

Population Within 2-Mile Radius

61,985 (Donnelley Marketing, 1984).

Buildings Within 2-Mile Radius

17,490 (Donnelley Marketing, 1984).

DIRECT CONTACT

I. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None known

2. ACCESSIBILITY

Describe type of barrier(s):

A fence encloses the leaching pool area and surrounds much of the site area. There is no security guard. (SCDHS, 1986).

3. CONTAINMENT

Type of containment, if applicable:

Surface impoundment (leaching pools) (Pim, 1987)

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

See Ground Water Route

Compound with highest score:

See Ground Water Route

82C45483

5. TARGETS

Population within one-mile radius

See Air Route

Distance to critical habitat (of endangered species)

See Surface Water Route

2-28

2.3 EPA Form 2070-12

(Preliminary Assessment)

⊋FPΔ	POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT 1. IDENTIFICATION 01 STATE IOZ SITE NUMBER N						
II. SITE NAME AND LOCATION							
O1 SITE NAME (Legal, common, or descriptive name of site)					CATION IDENTIFIER		
Jameco Industries, Inc.					Avenue	Jona de la composition della c	
wandanch		NV	05 ZIP CODE	5uft	Folk	07 COUNTY CODE	DIST
	AT O		•				
TO DIRECTIONS TO SITE ISlands from moderate public roads East on Southern State Continue for almost Wyandanch Avenue. Site is		ex (le appro	it NE and to ximately	on urn r 0.5 mile	to Straig right (ea e on ric	nt Pat st) ont ont.	h,
III. RESPONSIBLE PARTIES O1 OWNER (# known)		02 STREE	T (Business, making, r	residential)			
Jameco Industries, Inc.			- -		1 Avenue	2_	
O3 CITY		04 STATE	05 ZIP CODE	06 TELE	PHONE NUMBER	Ī	
wyandanch		NY	11798	1516	1643-5300] ·	
O7 OPERATOR IT Anount and different from owners Israel Gajer, Vice President	lost		T (Business, melling, r	esidential) US A	house		
13rdel Galer, vice mesic	Aerii		Same III ZIP CODE		PHONE NUMBER	 	
109 Cit 1			3000	()			
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE DB. FEDERAL: DF. OTHER:	(Agency name)				DUNTY E. MU	NICIPAL	
	B. UNCONTROLLI	ED WAST	E SITE (CERCLA 10	Je) DATER	ECEIVED:	AV YEAR C	. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD 01 ON SITE INSPECTION BY (Chec	h all that apply)						
YES DATE 1,8,85 DA. E. L.		TIAL F	TE OTHER	c. state	•	CONTRACTOR	l •
OZ SITE STATUS ICHOER ONDI DE AL ACTIVE B. INACTIVE C. UNKNOWN	03 YEARS OF OPERA	TION	Dre		□ UNKNOW		
organic Compounds.	OR ALLEGED				als and	volatile	,
os description of potential hazard to environment andior population from hal ground-water contamination and resultant public liealth threat for population using the water.							
V. PRIORITY ASSESSMENT							
O1 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, co A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required)	implete Part 2 · Waste Inform G. LOW (Inspect on time a		D. NON	IE	ns and incidents) nd, complete current dispos	ition form)	
VI. INFORMATION AVAILABLE FROM							
OI CONTACT JIM Firm	5uffolk Con	ion)	ept. of H	lealth :	Services	03 TELEPHONE (516) 45	
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORG/	ANIZATION	O7 TEL	EPHONE NUMBER	08 DATE	
L. Wade		Conse	iltants. In	ic. 1216	21 926-28-18	MONTH DAY	Y YEAR

\$EF	PA	РОТ	PRELIMINARY	RDOUS WASTE ASSESSMENT EINFORMATION	,	I. IDENTIFICAT	
II. WASTE S	TATES, QUANTITIES, AI	ND CHARACTER	STICS				
01 PHYSICAL S	TATES (Check all that apply)	Q2 WASTE QUANTI	f	03 WASTE CHARACT	ERISTICS (Check all that ap	ptyj	
E A SOLID E B. POWDE C SLUDGE	: L' G. GAS	TONS _ CUBIC YARDS _	Cry Kirgh NV	XA, TOXIC SXB, CORRO L: C. RADNOA SXD, PERSIS	ICTIVE G. FLAMI	TIOUS II J. EXPLOS MABLE II K. REACT	BIVE IVE
	(Specify)	NO OF DRUMS _		<u> </u>			
III. WASTE T			Tax annua	laa	I		
CATEGORY	SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		WIKKOWA			•	
OLW	OILY WASTE						
SOL	SOLVENTS		unknown				
PSD	PESTICIDES	<u> </u>					
OCC.	OTHER ORGANIC C	HEMICALS					
IOC	INORGANIC CHEMIC	CALS					
ACD	ACIDS		unknown				
BAS	BASES		unknown			•	
MES	HEAVY METALS		unknown				
V. HAZARD	OUS SUBSTANCES (See A	apendix for most frequent	ly caed CAS Numbers)				
1 CATEGORY	02 SUBSTANCE	IAME	03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
1165	Chromium (tot	al . haxavaknt)					
	Nickel						
	2016	· · · · · · · · · · · · · · · · · · ·					
	Iron						
							
/-AI	table children all	1000					1
50L	tetrachloroeth trichloroeth	ujierie					
	trichloro ethi	(leine					
)	<u> </u>				
							
	·····				-		
			<u></u>				
					_		<u> </u>
							<u> </u>
V. FEEDSTO	CKS (See Appendix for CAS Numb	ers)	<u> </u>				
CATEGORY	01 FEEDSTOO		02 CAS NUMBER	CATEGORY	01 FEEDSTC	CK NAME	02 CAS NUMBER
FDS	0.7.0255.00			FDS			
				FDS			
FDS				FDS			
FDS				FDS			
FDS				<u> </u>			
VI. SOURCE	S OF INFORMATION (CAL	specific references, e.g	state mes. sample analysis.	A I			
Nys	Department of County Dep	Law Fi artment o	ies (NYSD f Health S	ervices File	s (SCDHS))	

Bay Shore West, Ny Quadrangle, USES, 1979 (1565)

\$EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

		TIFICATION
01 ST N	V	02 SITE NUMBER NVD CO2415404
	,	

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS
II. HAZARDOUS CONDITIONS AND INCIDENTS
01 X A. GROUNDWATER CONTAMINATION 02X OBSERVED (DATE:) X POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: 100, 000 with 04 NARRATIVE DESCRIPTION
Ground-water contamination exists in the immediate site area (1976, 1979) 1981 1984) It has been reported that the on-site production well at James 18 contaminated with volatile organics. Analytical data is available recording 18 contamination in constructor discharged to on-site laggious.
01 🛣 B. SURFACE WATER CONTAMINATION 02 🗀 OBSERVED (DATE:) 💢 POTENTIAL 🗀 ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
Belmont Lake is approximately 0.5 mile from the Jameso site.
01 X C. CONTAMINATION OF AIR 02 C OBSERVED (DATE: 9-20-79) 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
- During an inspection conducted by the SCOHS, a plume of yellow gas was observed from a stack at the Jameco facility.
01 □ D. FIRE/EXPLOSIVE CONDITIONS 02 □ OBSERVED (DATE:) □ POTENTIAL □ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
No Information Available (NIA)
01 □ E. DIRECT CONTACT 02 □ OBSERVED (DATE) □ POTENTIAL □ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
NIA
01 X F. CONTAMINATION OF SOIL 02 X OBSERVED (DATE:)
On-site soil contamination observed on more than one occasion. (Chemical analysis)
01 SG DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 100,000 04 NARRATIVE DESCRIPTION 05 POPULATION POTENTIALLY AFFECTED: 100,000 06 NARRATIVE DESCRIPTION 07 POTENTIAL 07 POTENTIAL 08 POTENTIAL 09 POTENTIAL 0
Contaminated wastewater has been discharged to on-site leaching pools. Contamination of private wells is known to exist in
toité area
01 © H. WORKER EXPOSURE/INJURY 02 © OBSERVED (DATE:) © POTENTIAL © ALLEGED 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
NIA
01 XI. POPULATION EXPOSURE/INJURY 02 C) OBSERVED (DATE:) X POTENTIAL D ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION
Greater than 100,000 people depend on ground water as a sole source of potable supply within a 3-mile radius of sike
sole source of putable supprig with

ŞEPA	PUI	TENTIAL HAZARDOUS WASTE SITE	I. IDENTIF	
~~ ~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ART 4 - DECORDE	PRELIMINARY ASSESSMENT	OI STATE OF	SITE NUMBER
IL HAZARDOUS CONDITION	AHI 3-DESCRIPT	TION OF HAZARDOUS CONDITIONS AND INCIDENTS		141)0024154
01 D J. DAMAGE TO FLORA				
04 NARRATIVE DESCRIPTION		02 (DATE:)	☐ POTENTIAL	☐ ALLEGED
NIA			÷	
01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION	(Include name(s) of species)	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NIA				
01 D L. CONTAMINATION OF I	FOOD CHAIN	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NIA		÷		
01 X M. UNSTABLE CONTAINS (Spills/runoff standing injuries)	MENT OF WASTES	02 図 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY	AFFECTED:	04 NARRATIVE DESCRIPTION		G ALLEGED
Overflowing	industrial was	seleatting pools; sludge si	p. 11 1975)	
01 K N DAMAGE TO OFFSITE	PROPERTY		POTENTIAL	XALLEGED
04 NARRATIVE DESCRIPTION IH has	ام موسا	llened that a sile !		1.
overflows	ed on	occasion to neighboring	ing propi	ois erty.
Adequate	document	tetion for this allegation	is lac	king.
01 🗀 O. CONTAMINÀTION OF S 34 NARRATIVE DESCRIPTION	SEWERS, STORM DRAIN	17	D POTENTIAL	☐ ALLEGED
NiA				
1 D.P. ILLEGAL/UNAUTHORIZ	ED DUMPING	02 X OBSERVED (DATE: 1979)	D POTENTIAL	☐ ALLEGED
4 NARRATIVE DESCRIPTION				
4 NARRATIVE DESCRIPTION		dia dia madi di il		
14 NARRATIVE DESCRIPTION	wastes	discharged to leaching	pools	s on site.
Hazardous B DESCRIPTION OF ANY OTHER	R KNOWN POTENTIAL	OR ALLEGED HAZARDS		
Hazardous DE DESCRIPTION OF ANY OTHER	R KNOWN POTENTIAL	<i>0</i>		
Potenhal for	R KNOWN, POTENTIAL	OR ALLEGED HAZARDS water and surface	water o	entamnativ
Hazardous DE DESCRIPTION OF ANY OTHER	R KNOWN, POTENTIAL	or Alleged HAZARDS water and surface	water o	entamnatio
Hazurdous Backiption of any other Potental for	R KNOWN, POTENTIAL	OR ALLEGED HAZARDS water and surface	water o	entamnativ
Hazurdous Backiption of any other Potental for	R KNOWN, POTENTIAL	OR ALLEGED HAZARDS water and surface	water o	entamnativ
Hazurdous Backiption of any other Potenhal for Total population pote	ENTIALLY AFFECTED	on alleged hazards water and surface b. Luer 100,000 people reside within	water o	entamnativ
POLICIPION OF ANY OTHER POLICIPION OF ANY OTHER TOTAL POPULATION POTE COMMENTS SOURCES OF INFORMATION N 45 DUL FILES	ENTIALLY AFFECTED	on alleged hazards water and surface b. Luer 100,000 people reside within	water o	entamnativ
Hazurdous Be description of any other Potenhal for Total population pote Comments	ENTIALLY AFFECTED	on alleged hazards water and surface b. Luer 100,000 people reside within	water o	entamnativ

2.4 EPA Form 2070-13

(Site Inspection Report)

€EPA	POTE	[N 1/]	OT STATE DZ SITE NUABER NY NYD 003年54年			
N, SITE NAME AND LOCATIO	W				TOCATON TO	
	1.00		2 LIC	HU., URI SPECIFIC	ch Avenu	e
Jameco Indu	istnes, Inc.		1	- 108 CO	NATY	TOTOGUNTY 08 CONG
Wyandanch			NY 117	98 5	Suffolk	CODE DIST
GO COORDINATES LATITUDE 40 44 31.0 0	13 21 21.0	10 TYPE OF OWNERSH A. PRIVATE F. OTHER -	B. FEDERAL	D C.	STATE D. COUNT D. G. UNKNO	Y DE. MUNICIPAL)WN
HI. INSPECTION INFORMATI	ION .	03 YEARS OF OPERA	TION			
OFF 1,8,85	02 SITE STATUS ACTIVE DI MACTIVE	BEG	964 DI	IDING YEAR	UNKNOWN	
O4 AGENCY PERFORMING INSPECT			inspection ((On-Sike	inspection	refused).
D A. EPA D B. EPA CONT	RACTOR	Name of firm)	C. MUNICIPAL S. G. OTHER_IA)oodwar	(Seecily)	Consultants, inc.
		OS TITLE		To	DI ORGANIZATION WOOD WITH CLYP	DO TELEPHONE NO
05 CHIEF INSPECTOR		1	Geologis	+ 14	wood ward-eigh Consultants, lile	, AA, 180 00 10
C. Motta		5 TATT	- C C C C C C C C C C C C C C C C C C C		11 DRIGANIZATION	12 TELEPHONE NO.
00 OTHER INSPECTORS						()
						()
						()
		+				()
		+				()
13 SITE REPRESENTATIVES INTER	VEWED	14 TITLE	16ADDRES	SS		16 YELEPHONE NO
				<u>,</u>		
	_ 					()
						()
						()
		1				()
		+				()
		-				
1			VIII 1			
(Check one) D PERMISSION	8 TIME OF INSPECTION	10 WEATHER CO				
DWARANT	al E COUN					
IV. INFORMATION AVAILA	IOLE PRUM	D2 OF Memorian	printer)	<u> </u>	4.12	03 TELEPHONE NO.
J. Pim		5uffolk	County De	ept. of Hu	ealth Servic	es 15161451-46
DA PERSON RESPONSIBLE FORE	SITE INSPECTION FORM	OS AGENCY	woodwar	d- Clyde	07 TELEPHONE NO. (219) 926-28	175 2 17,80 MICHIEL DAY YEAR
r. whoe		i	consulta	1/115 INC .		

		POT	ENTIAL HAZAR	RDOUS WASTE	SITE	L IDENTIFICATION		
SE	PA	PO	SITE INSPEC	INSPECTION REPORT 2-WASTE INFORMATION DI STATE DI 2 SITE NUMBER NY NYDOUZH, 540				
H WASTES	TATES, QUANTITIES, AN	D CHARACTERI	STICS					
DI PHYSICAL 8	TATES (Check of the sport)	DE WASTE QUANTI	TY AT SITE	03 WASTE CHARACTE	PESTICS (Check of that stop)	. /	1	
DA SOUD	E) E. BLURRY	State See	russis quantitos masponizanti	X A TOXIC	E. BOLUBLI BAYE D. F. INFECTIO			
DI B. POWDE	A FRES SEF. LIQUID	TONS -	The imiga	D C RADIOA	CTIVE D. G. FLAMMA	BLE DK. MEACTI	/E	
C. BLUDOL	E 13 G. GAS	CUBIC YARDS -	- VIII	D. PERSIST	TENT DH. KONITABI	E DI NOT AP		
D D. OTHER	(Specify)	NO. OF DRUMS	<i>u</i> ,	. .				
W 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				<u> </u>				
NI, WASTE T	TYPE RURSTANCE N	AME	01 GROSS AMOUNT	02 LINIT OF MEASURE	03 COMMENTS			
CATEGORY	SLUDGE		whenown					
SLU	OILY WASTE		CETATIONIT					
OLW			11.10 (
80 L	BOLVENTS		unknown					
PSO	PESTICIDES							
occ	OTHER ORGANIC CI	HEMICALS	<u> </u>	ļ				
IOC	INORGANIC CHEMIC	ALS						
ACD	ACIDS		unknown					
BAS	BASES		inteneun					
MES	HEAVY METALS		unknown	<u> </u>	<u> </u>			
IV. HAZARD	OUS SUBSTANCES (See A	poends for most frequen	By cased CAS Mumbers!				I OS MEASURE OF	
01 CATEGORY	02 SUBSTANCE N	ME	DO CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 ME ASURE OF CONCENTRATION	
1-165	Chromium (to	tal hexavele	4)				ļ	
	Nickel						<u> </u>	
							<u> </u>	
	Zinc		 					
	<u>Iron</u>		 					
			-					
			 	 				
50L	tetrachlomet to chloroethe	hylene	 	 				
	to chieroethe	1/2112					 	
	<u> </u>	J						
	<u> </u>						+	
			<u> </u>					
			<u> </u>					
			1	<u> </u>			 	
				<u> </u>			 	
				<u>. </u>			 	
					İ			
	<u></u>							
V. FEEDST	DCKS (See Appendix for CAS Mun		Langer	CATEGORY	D1 FEEDSTO	CK NAME	02 CAS NUMBER	
CATEGORY	Y 01 FEEDSTO	CK NAME	02 CAS NUMBER					
FD6				FDS			 	
FD6			<u> </u>	FDS	<u></u>		 	
FD6				FDS			 	
FDS				FDS	<u></u>		<u> </u>	
	ES OF INFORMATION 10	e apacific references. C.	, case Stee, semple analysis	n, reporte)				
NUS	Departmen	it of L	aw (N)	15 DOL)	Files	Files		
Suffo	Department Dik County D Shore West	epartmen	t of Hea	uth Derna	15 OLUMS) 1979 /USA	ries KS)		
Bay	Shore West	, NY QU	lactratigle,	, 0000,	1111 (030			

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

OI STATE OF SITE NUMBER

SEPA	PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS
E HAZARDOUS CONDIT	TIONS AND INCIDENTS
Ground - wate 1979 1981, 1984) Jamero is con regarding is con 1988 SURFACE WATE 03 POPULATION POTENT Belmont	THOMS AND INCIDENTS RECONTAMINATION THALLY AFFECTED: LCC ETU WITH DA MARRATIVE DESCRIPTION TO CONTAMINATION THAT I WAS EVEN REPORTED THAT THE GIT-SITE DESCRIPTION THAT I HAS EVEN REPORTED THAT THE GIT-SITE DESCRIPTION THE GENTLAMINATION THAT WAS EVEN TO BE
During of yell	an inspection conducted by the SCDHS, a plume ou gas was observed from a stack at the Jameso facility.
	TO BOTENTIAL LALLEGED
	formation Available (NIA)
D1 D E. DIRECT CONTA D3 POPULATION POTEN NIA	TIALLY AFFECTED UNIT INVESTIGATION CONTROL CON
01 DXF. CONTAMINATE 03 AREA POTENTIALLY CIN-Site Soil Than one	or soil of soil of narrative description 1974, 1984 1984 on more contamination observed (Chemical analytical data) on more occasion.
Contaminated	er contamination 100 800 02 00 08 02 00 08 00 00 00 00 00 00 00 00 00 00 00
01 DH WORKER EXP 03 WORKERS POTENT	OSURE/NURY DZ OBSERVED (DATE:
01 DT. POPULATION E 03 POPULATION POTE Greater	than 100,000 people depend on ground water supply within a 3-mile vadius
100 K	,

£.EPΔ

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENT	TEICATION
O) STATE	02 SITE MANBER NY D 003 415 404

QLIA,	ART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	rs - / 1/-/	
A HAZARDOUS CONDITION	NS AND INCIDENTS (Comment.			F) ALLEGED
01 D J DAMAGE TO FLORA 04 NAMPATIVE DESCRIPTION		02 OBSERVED (DATE:)	D POTENTIAL	D ALLEGED
: NIA				
D1 K. DAMAGE TO FAUNA D4 NAPRATIVE DESCRIPTION	Michigo Remotal of Sciences)	02 D OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
NIA				
01 D L. CONTAMINATION OF 04 NARRATIVE DESCRIPTION	FOOD CHAIN	02 DOBSERVED (DATE)	D POTENTIAL	☐ ALLEGED
NIA				
01 O M. UNSTABLE CONTAIN	MENT OF WASTES	0≥€ OBSERVED (DATE)	D POTENTIAL	D ALLEGED
03 POPULATION POTENTIALL	Y AFFECTED.	leaching pools (1979)	. Sludge	spil (1975).
•	industrial waste	0 '		
01 N DAMAGE TO OFFSIT	E PROPERTY	02 C OBSERVED (DATE	D POTENTIAL	DOMEGED
04 NARRATIVE DESCRIPTION	illeged that on	oz DOBSERVED DATE	do cument	ation
occasion to	Uneighborng.	property. Treequare	<u></u>	
			[] POTENTIAL	C ALLEGED
01 D CONTAMINATION OF DA NARRATIVE DESCRIPTION	F SEWERS, STORM DRAINS, WWTP	02 ILOBSERVED (DATE:)	F LAIGHING	<u></u>
NIA				
D1 XP. ILLEGAL/UNAUTHO	RIZED DUMPING	02 MOBSERVED (DATE 1979 1	POTENTIAL	D ALLEGED
	•	ged to leaching	pools on	site.
	THER KNOWN, POTENTIAL, OR ALL	EGED MAZAROS		
05 DESCRIPTION OF ANY OT	Arum Storage	area: improper storage	of chrome	plating,
In a a equine	de of building	(1979). on - site studge	spill : alle	gationslot
overflow of	leaching pools on	area; improper storage (1979); on - site sludge site; and violations of	SPDES Ferr	MT.
M. TOTAL POPULATION P	OTENTIALLY AFFECTED:	er 100,000 people reside u	ofthin a 3-mil	e redico tr sile.
IV. COMMENTS				
				·
Y. SOURCES OF INFORM	ATION (Can apochic references, 9 g . seem for	es semple analyse, reports,		
NYS DOL FI	les	•		
. SCOHS File	? 5			
1 3 20 0 11 2 1 1				

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4-PERMIT AND DESCRIPTIVE INFORMATION					I. IDENTIFICATION O1 STATE O2 SITE NUMBER N Y N V I V V C 34/54(4
	PART 4 - PERMIT	AND DESU	RIPTIVE INFORMA	TION	
II. PERMIT INFORMATION OI TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSU	ED 04 EXPIRATION DATE	E 05 COMMENTS	
(Chest of the spyl)			Ì		
DA MPDES				<u> </u>	
DB. WC		 		 	
DC. AIR					
D.D. RCRA					
DE RCRA INTERIM STATUS				 	
DF. SPCC PLAN	NY-0081540	-		 	
DG STATE (Specify: 5PDES	NYOUS 15 40	+		 	
DI. OTHER (Specify)		+	 	+	
		+		1	
III, SITE DESCRIPTION				<u></u>	
	D2 AMOUNT D3 UNIT O	F MEASURE (DA TREATMENT (Check at the	I CO DYI	05 OTHER
DIA. SURFACE IMPOUNDMENT D B. PILES			A. INCENERATION B. UNDERGROUND IN	LIECTION	X A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			C. CHEMICAL/PHYSK		
XD. TANK, ABOVE GROUND		1 -	D. BIOLOGICAL		D6 AREA OF SITE
D E. TANK, BELOW GROUND			DE. WASTE OIL PROCE DF. BOLVENT RECOVE		
D F. LANDFILL] F. SOLVENT MECOVE] G. OTHER RECYCLIN		N 6 (Acres)
D H. OPEN DUMP		1 -	D H. OTHER		•—
☐ I. OTHER			a	ipoc#y)	
07 COMMENTS					
IV. CONTAINMENT					
D1 CONTAINMENT OF WASTES (Check she) D A. ADEQUATE, SECURE	☐ B. MODERATE	DC. NA	DEQUATE, POOR	D D. INSEC	CURE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, I On - Site lagoons	without	propen	lining.		•
V. ACCESSIBILITY	2.50				
01 WASTE EABLY ACCESSIBLE: DYE	•				
Fence around	d site.				
VI. SOURCES OF INFORMATION ICA	pacific references, e.g. state fiel. sem	the grayes. Record)		
NYSDOL Files					
SCOHS Files					

	POTE	NTIAL HAZAR	DOUS WASTE	SITE	L IDENTIFICATION DI STATE 02,SITE NUMBER
ŞEPA	PART 5-WATER	SITE INSPECT	ION REPORT		NY NY DOGH 544
IL DRINKING WATER SUPPLY					
O1 TYPE OF DRINKING SUPPLY		02 STATUS			GO DISTANCE TO SITE
(Cheek or oppdess)	er W ell	ENDANGERE	D AFFECTED	MONITORED	1005
COMMUNITY A. D	8.50	A,X	8. 🗖	c. 🕱	$A \leq \frac{C.05}{(ml)}$ $B \leq 0.05 \text{ (mi)}$
NON-COMMUNITY C. []	0.75%	0.10	E. D	f . □	B(mi)
M. GROUNDWATER					
01 GROUNDWATER USE IN VICINITY (CA	act ene)				ATION ID D NOT USED, UNUSEABLE
D(A. ONLY BOURCE FOR DRINKING	(Care, transer average	EDUSTRIAL, PARIGATIO	Edward other	AL, INDUSTRIAL, IPRIGA SOUTH CONTROL	THE PART OF THE PA
02 POPULATION SERVED BY GROUND	WATER Greater tha	n 100,000	03 DISTANCE TO NE	AREST DRINKING WATER	WELL 40.05 (mi)
04 DEPTH TO GROUNDWATER	DS DIRECTION OF GRO	DUNDWATER FLOW	06 DEPTH TO ADUFF	R 07 POTENTIAL YE	1
Less than 10 m	E- 4	5E	between 5 - 10	-	(gpd) YES D NO
On-sik produ SCWA deep Private wells.	iction and water sw	diffusion pply well	well s within		feet of site.
	mont Lake ground-wat	er flow.	11 DISCHARGE AREA E YES COMM	Discharto be from s	rge area believed approximately u.smle ite.
IV. SURFACE WATER					`
01 SURFACE WATER USE (CHOOL OF) DE A. RESERVOIR, RECREATION DRINKING WATER SOURCE	I E B. IRRIGATIO E IMPORTAI	ON, ECONOMICALLY NT RESOURCES	C. COMME	RCIAL, INDUSTRIAL	D. NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTE	D BOOKS OF WATER				
NAME:				AFFECTE	D DISTANCE TO SITE
Carlle River				D	
Carlls River Belmont Lake					
				D_	-//m/
V. DEMOGRAPHIC AND PROPE	RTY INFORMATION				area nobuli ATOM
01 TOTAL POPULATION WITHIN		FOUR(4)	02 DISTANCE TO NEA	WEST POPULATION
ONE (1) MILE OF SITE A. 13 7 9 U	TWO (2) MILES OF SITE B. 61985 NO OF PERSONS	THREE	9) MILES OF SITE 83 6 35 NO OF PERSONS		v.03 (ml)
OS NUMBER OF BUILDINGS WITHIN TW			04 DISTANCE TO NE	AREST OFF-BITE BUILD	
>17.4				N.	<u>03_(ml)</u>
			1	Eugo. duranty papulated urba	n area)
The site of Suffolk Belmont La Jameco Ind	is located County. Few Ke State Ustries linc	d within u indus- Park i	n a do thes ex s less	ensely p ist in P Hhan O	oupulated area the site area .5 mile from

							hotoria - C. C.
		POTENTIAL HAZA	RDOUS V	VASTE	SITE		DENTIFICATION STATE OF SITE NUMBER
SEPA		SITE INSPEC	TION RE	PORT			Vy NyD 003415 49
VEIT	PART	5-WATER, DEMOGRAPH	IC, AND	ORIVA	MENIAL DA		7 7
VI. ENVIRONMENTAL INFORMA							
D1 PERMEABILITY OF UNSATURATED 2	ONE ICAGO ON	e/ D B. 10-4 — 10-9 cm/sec	C. 10-4-	10-3 cm/	feec D.D.GRE	ATER THAN	i 10-3 cm/sec
02 PERMEABILITY OF BEDROCK (Check		•					
A. SAPERM		B. RELATIVELY IMPERMEASI	LE DC.				Y PERMEABLE or non 10 ⁻³ cm sec)
03 DEPTH TO BEDROCK	04 DEPTH O	OF CONTAMINATED SOIL ZONE		05 SOL pt	•		
~1350 m	<u> </u>	oly a+ least 5-10 m		<u>un</u>	Knewn		
OG NET PRECIPITATION	D7 ONE YEA	AR 24 HOUR RAINFALL	DB SLOPE SITE S	LOPE	DIRECTION OF	SITE SLOPE	TERRAIN AVERAGE SLOPE
15(in)		3(in)	لک	*	5-5		1*
09 FLOOD POTENTIAL	<u> </u>	10	_	<u> </u>			Dig Pi Addison
SITE IS IN N/A YEAR FLO		D SITE IS ON BARRI	_				
11 DISTANCE TO WETLANDS IS ACTO MARIE			12 DISTAN	CE TO CRIT	TICAL HABITAT IV		
ESTUARINE		OTHER			_	N/A	(mi)
A. N/A (mi)	B.	< 0.2 (mi)	EN	DANGERE	ED SPECIES		
13 LANDUSE IN VICINITY			<u> </u>				
DISTANCE TO:							
	na.	RESIDENTIAL AREAS; NATIO FORESTS, OR WILDLIF	FE RESERV	ŁS		AGRICULT AG LAND	TURAL LANDS AG LAND
COMMERCIAL/INDUSTR	WAL	Adjacent	+- resi	denhal			
A 4.05 (mi)	ı	B. ~.02			cN/	<u>/A</u>	n D. <u>N/A</u> (mi)
14 DESCRIPTION OF SITE IN RELATION							
			ie	nl	hick	را در س	evation
51te 15 1	relative	ely flat. Site Lake State	D	U.T 411	۱۰۰ کما سے ۱۰۰ کما سے	ا ال ا اد	towards
		eate state	1767 6	・・・シィチ	- word	13	u u − perg ng had
Belmont	Lake.						
y y oor driff	•						
							•
VII. SOURCES OF INFORMATIO)N ran made	ic references, O.S., state Stee, asmple protyce). (190/11)			1 4	almo to allo
NYSDOL Files		Donnelley Ma	rkehn	g (pc	pulation d	intr)	HRS Uses Han
		Jensen and	Sor	รัก	1974		•
SCDHS Files		DIL DEC					
·US65,1979		NYODEC NYS Dept o	+ An	icultu	ne and	Marke	ets
,		NYS DELT O	<u> </u>				والمراجع وا

			BOOLS WASTE	HTF	L IDENTIFIC	
POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION						
SAMPLES TAKEN						03 ESTIMATED DATE
BAMPLE TYPE	01 NUMBER OF BAMPLES TAKEN	02 SAMPLES SENT TO				RESULTS AVAILABLE
GAOUNDWATER X		52 e	Appendix	B of	this Re	port
BURFACE WATER						
WASTE	·					
AR						
PIUNOFF						
SPILL.		<u> </u>	<u> </u>	Q		
80IL X		See	Appendix	i.		
VEGETATION		 	Appendix Appendix	R		
OTHER	<u> </u>	See	Moderate	<u> </u>		
FIELD MEASUREMENTS TO	LOZ COMMENTS					
v. PHOTOGRAPHS AND MAI		02 IN CUSTODY OF _				
DI TYPE DI GROUND DI AERIA		W # 025/05/07	(Ашино сі	organization er individu	,	
D MAPS 04 LOCATH	ON OF MAPS					
	ECTED (Property Assessed Assessed Assessed	was ripidon)				
The Suff the NYS Dep sampling an	artment	of Law	LISCO IL	10111100		rding
VL SOURCES OF INFORMA	FION (Cre specific references	s e.g., cape fine, sample and	ryse. reports:			
NYS Departs SCDHS File	ment of	Law Files				

≎ EPA		SITE INSPI	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION	I. IDENTIFICA	TION TE NUMBER 10 005-115404
IL CURRENT OWNER(S)			PARENT COMPANY (Familian)		
A MANE		D2 D+8 MANBER	OS NAME	09	D+B NUMBER
Tamero Inclustres.		04 BIC CODE	10 STREET ADDRESS (P O Bon. AFD F. occ.)		11 SIC CODE
548 Wyandanch A	DO STATE	11798	12 C/17	13 STATE 14	ZIP CODE
Wyandanch	1104	02 D+8 NUMBER	OS NAME	OS	D+B NUMBER
D3 STREET ADDRESS (P.O. Box, RFD #, onc.)		04 SIC CODE	10 STREET ADDRESS (P.O Bon. MFD e, etc.)		11SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE 14	ZIP CODE
01 NAME		D2 D+8 NUMBER	DB NAME	o	D+8 NUMBER
D3 STREET ADDRESS (P.O. Box. RFD4, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Sea. RFD 4. etc.)		11SIC CODE
05 CITY	O6 STATE	07 2IP CODE	12 CITY	13 STATE 14	I ZIP CODE
D1 NAME		02 D+B NUMBER	DO NAME	0	D+8 NUMBER
03 STREET ADDRESS IP.O. Box. NO. J. orc.)		04 SIC CODE	10 STREET ADDRESS (P.O Box, AFD P. ofc)		11SIC CODE
OS CITY .	06 STATI	07 ZIP CODE	12 CTY	13 STATE 1	4 ZIP CODE
		<u> </u>	IV. REALTY OWNER(S) IT AND REALTH MET	moet recent first,	
III. PREVIOUS OWNER(S) (Last recess for O1 NAME	it,	02 D+8 NUMBER	D1 NAME		2 D+8 NUMBER
03 STREET ADDRESS (P.O Bas, NFD+, etc.)		04 SIC CODE	0.3 STREET ADDRESS (P.O. Box. NPD #, etc.)		04 SIC CODE
OS CITY	06 STATE	07 ZP CODE	05 CITY	OS STATE	7 ZIP CODE
01 NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. San, AFD F, SK.)		04 8/C CODE	03 STREET ADDRESS (P 0 Gos. RFD P. orc.)		04 SIC CODE
06 CITY	06 STATI	07 ZP COOE	os city		7 2P CODE
O1 NAME		02 D+8 NUMBER	O1 NAME		D2 D+B NUMBER
03 STREET ADDRESS (P.O. Sec. NFD F, etc.)		04 SIC CODE	D3 STREET ADDRESS (P.O. Bas, APD F, orc.)		04 SIC CODE
OSCITY	O6 STATI	07 ZIP COOE	DS CITY	OG STATE	OT ZIP CODE
V. BOURCES OF INFORMATION (CM III	actic reference	. o.g., anne liter, escapio acel	yeb. reports)		
SCDHS Files					•
SCOHS Files NYS DOL File	S				
•					

2-43

&EPA		SITE INSPEC	RDOUS WASTE SITE CTION REPORT TOR INFORMATION		
IL CURRENT OPERATOR Manual Months			OPERATOR'S PARENT COMPAN		B A B AMMADE D
Texael Gaier (Vice-	ent)	D+B NUMBER	10 NAME		1 D+8 NUMBER
248 Wandanch Are	nue	04 SIC CODE	12 STREET ADDRESS (P.O Son, NPD+, onc.)	IS STATE I	
Wyandanch	NY NY	1200E 11798	14 CITY	155IAIE	621 CODE
			PREVIOUS OPERATORS' PAREN	T COMPANIES	
H. PREVIOUS OPERATOR(S) ILAN MORN BOOM BOOM	. provide any	(distance from owner)		TOMP AIGES (#	1 D+B NUMBER
1 NAME	0	2 D+8 NUMBER	10 NAME		T13 SIC CODE
3 STREET ADDRESS (P.O. Box. RFD F. orc.)		04 SIC CODE	12 STREET ADDRESS (P.O. See, RFD #, etc.)		16 ZIP CODE
э стү	DE STATE)7 ZIP CODE	14 CITY	ISSINIE	
NO YEARS OF OPERATION 09 NAME OF OWNER D	URING THIS	PERIOD			11 D+B NUMBER
DI NAME		02 D+B NUMBER	10 NAME		13 SIC CODE
D3 STREET ADDRESS (P.O. Box, NFD P, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		
DS CITY	OS STATE	O7 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER	DURING THE	S PERIOD			
DI NAME		02 D+B NUMBER	10 NAME		11 D+8 NUMBER
03 STREET ADDRESS (P.O. Sms., RFD P. cts.)		04 SIC CODE	12 STREET ADDRESS (P.O Box, MFDF, oc.		13 SIC CODE
D6 CITY	DO STATE	07 ZIP CODE	14 CITY	16 STATE	16 ZIP CODE
DB YEARS OF OPERATION DO NAME OF OWNER	DURING THE	S PERIOD		·	
IV. SOURCES OF INFORMATION (CO+ 4+++)	k references.	o.g., easte libre, comple and	iyen, reports)		
SCOHS Files					
NYS DOL Files			·		
	٠	•			
			•	·	
•					

≎EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 9 - GENERATOR/TRANSPORTER INFORMATION					I. IDENTIFICATION O1 STATE O2 SITE NUMBER Ny N		
II. ON-SITE GENERATOR								
Jameco Industries, Ir			B NUMBER					
248 Wyandanch A	ve nu e	ا ب	04 SIC CODE					
wyandanch	DE STATE	:107 25	11798					
HI. OFF-SITE GENERATOR(S)								
O1 NAME	·	02 D4	B NUMBER	01 NAME		02 D+B NUMBER		
D3 STREET ADDRESS IP 0 Son. RFD #, etc.)		T	D4 SIC CODE	03 STREET ADDRESS (P O Bos. RFD+, etc.)		04 SIC CODE		
DS CITY	08 STATE	07 25	CODE	OS CATY	06 STATE	07 ZIP CODE		
D1 NAME	<u> </u>	03 D4	B NUMBER	01 NAME		D2 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RPD #, occ.)		1	D4 SIC CODE	03 STREET ADDRESS (P.O Box, RFD+, otc.)		04 SIC CODE		
OS CITY	DE STATE	07 25	COOE	05 CITY	06 STATE	07 ZIP CODE		
IV. TRANSPORTER(S)	1	<u> </u>				L		
O1 NAME		02 D4	B NUMBER	D1 NAME		02 D+B NUMBER		
D3 STREET ADDRESS (P O Box, RFD #, etc.)			D4 SIC CODE	03 STREET ADDRESS (P.O Box, AFD F. Mc.)		04 SIC CODE		
05 CITY	06 STATE	07 25	CODE	OS CITY	06 STATE	07 ZIP CODE		
O1 NAME		02 D4	B NUMBER	O1 NAME		02 D+B NUMBER		
03 STREET ADDRESS (P.O Ban, NFD P, occ.)		ľ	M SIC CODE	03 STREET ADDRESS (P.O. Box, RFD+), etc.)	 	04 SIC CODE		
05 CITY	OG STATE	07 25	COOE	06 CTY	06 STATE	D7 ZIP CODE -		
V. SOURCES OF INFORMATION (Con speed						<u> </u>		
NYS Departmen SCDHS Files								
					•			
				•				
•								

POTENTIAL NAZARDOUS WASTE SITE STETE INSPECTION REPORTS BYTE INSPECTION REPORTS OF DATE OF ACTIVITIES OF DATE OF ACCUMULATION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DESCRIPTION OF DATE OF ACCUMULATION WASTER SUPPLY PROVIDED OF DATE OF ACCUMULATION OF ACCUM		POTENTIAL HAZARDOUS WASTI	SITE L DENTIFICATIO	N
PART 10 - PAST RESPONSE ACTIVITIES 1 D.A. WATER SUPPLY CLOSED ON DESCRIPTION 10 D. TOUR WATER SUPPLY PROVIDED ON DESCRIPTION 10 D. TOUR THANKING WATER SUPPLY PROVIDED ON DESCRIPTION 10 D.D. SPILLED MATERIAL REMOVED ON DESCRIPTION 10 D.D. SPILLED MATERIAL REMOVED ON DESCRIPTION 10 D.S. SUPPLY DESCRIPTION 10 D.S. WASTE CONTAMENANTED SCI. REMOVED ON DESCRIPTION 11 D.S. WASTE DEPOCACED ON DESCRIPTION 12 D.S. WASTE DEPOCACED ON DESCRIPTION 13 D.S. WASTE DEPOCACED ON DESCRIPTION 14 D.S. WASTE DEPOCACED ON DESCRIPTION 15 D.S. WASTE DEPOCACED ON DESCRIPTION 16 D.S. WASTE DEPOCACED ON DESCRIPTION 17 D.S. WASTE DEPOCACED ON DESCRIPTION 18 D.S. WASTE DEPOCACED ON DESCRIPTION 19 D.S. WASTE DEPOCACED ON DESCRIPTION 10 D.S. WASTE DEPOCACED ON DESCRIPTION 10 D.S. WASTE DEPOCACED ON DESCRIPTION 11 D.S. R. STU PRIVECAL TREATMENT ON DESCRIPTION 11 D.S. R. STU PRIVECAL TREATMENT ON DESCRIPTION 12 D.S. DEPOCACED ON DESCRIPTION 13 D.S. DEPOCACED ON DESCRIPTION 14 D.S. DEPOCACED ON DESCRIPTION 15 D.S. DEPOCACED ON DESCRIPTION 16 D.S. DEPOCACED ON DESCRIPTION 17 D.S. DEPOCACED ON DESCRIPTION 18 D.S. DEPOCACED ON DESCRIPTION 19 D.S. DEPOCACED ON DESCRIPTION 19 D.S. DEPOCACED ON DESCRIPTION 10 D.S. DEPOCACED ON DESCRIPTION 10 D.S. DEPOCACED ON DESCRIPTION 10 D.S. DEPOCACED ON DESCRIPTION 11 D.S. DEPOCACED ON DESCRIPTION 12 D.S. DEPOCACED ON DESCRIPTION 13 D.S. DEPOCACED ON DESCRIPTION 14 D.S. DEPOCACED ON DESCRIPTION 15 D.S. DEPOCACED ON DESCRIPTION 16 D.S. DEPOCACED ON DESCRIPTION 17 D.S. TOUR TREATMENT 17 D.S. DEPOCACED ON DESCRIPTION 17 D.S. TOUR TREATMENT 17 D.S. DEPOCACED ON DESCRIPTION 18 D.S. TOUR TREATMENT 19 D.S. TOUR TREATMENT 19 D.S. TOUR TREATMENT 19 D.S. DEPOCACED ON DESCRIPTION 19 D.S. TOUR TREATMENT 19 D.S. TOUR TREATMENT 19 D.S. TOUR TREATMENT 19 D.S. TOUR TREATMENT 19 D.S.		SITE INSPECTION REPORT		MBER 1)2 UTGU/d
OF D. A. WATER BUPPLY CLOSED OR DESCRIPTION OF DESC	VEFA			יאדעידואיט
OF D. A. WATER BUPPLY CLOSED OR DESCRIPTION OF DESC	BAST RESOURCE ACTIVITIES			
ON DESCRIPTION OF DESCRIPTION		D2 DATE	03 AGENCY	
91 D C PERMANENT WATER BUPPLY PROVIDED 91 D C PERMANENT WATER BUPPLY PROVIDED 92 DATE	04 DESCRIPTION			
DI DE SPILLED MATERIAL REMOVED OI DE SPILLED MATERIAL DE SPILLED MATERIAL DE SPILLE DE SPILLE MATERIAL DE SPILLE DE SPILLE MATERIAL DE SPILLE DE S	Q1 D B. TEMPORARY WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY	
OI D D. SPILLED MATERIAL REMOVED OI DESCRIPTION OI TO F. WASTE REMOVED OI DESCRIPTION OI D F. WASTE REPACAGED OI DESCRIPTION OI D G. WASTE DISPOSED ELSEWHERE OI DESCRIPTION OI D H. ON STIE BURIAL OI D H. ON STIE BURIAL OI D I. N. STILL OVERICAL TREATMENT OI D J. N. STILL OVERICAL TREATMENT OI D J. N. STILL OVERICAL TREATMENT OI D J. N. STILL PRIVISCAL TREATMENT OI D J. N. STILL PRIVISCAL TREATMENT OI D SCRIPTION OI D I. N. STILL PRIVISCAL TREATMENT OI D SCRIPTION OI D I. D. L. ENCAPSULATION OI D I. D. ENCAPSULATION OI D II. D. ENCAPSULATION OI D III. D. STILL OVER SITUAL OI D II. D. ENCAPSULATION OI D II. D.	O4 DESCRIPTION			
O1 DL SPILLED MATERIAL REMOVED O1 DESCRIPTION O1 DE CONTAMINATED SOIL REMOVED O1 DE MERCAPITAMINATED SOIL REMOVED O1 DE MASTE DESPOKACIÓED O1 DE MON STE BURBAL O2 DATE O1 DE MON STE BURBAL O2 DATE O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O3 AGENCY O3 AGENCY O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O2 DATE O3 AGENCY O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O4 DESCRIPTION O1 DE METU BOLOGICAL TREATMENT O4 DESCRIPTION O2 DATE O3 AGENCY O		DED 02 DATE	03 AGENCY	
O1 DE CONTANDATED SOL REMOVED O2 DATE O1 DE CONTANDATED SOL REMOVED O2 DATE O3 AGENCY O1 DE CONTANDATED DISPOSED ELBEWHERE O2 DATE O3 AGENCY O1 DE MASTE DISPOSED ELBEWHERE O2 DATE O3 AGENCY O1 DE NO SITE BURBL O3 AGENCY O1 DE NO SITE BURBL O4 DESCRIPTION O5 DATE O5 AGENCY O5	01 D SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
DI DE CONTAMENTON IN 1975 Studge from on-site lagoons was repertedly Off site. DI DE WASTE DEPOSED ELSEWHERE OF DESCRIPTION DI DE WASTE DEPOSED ELSEWHERE OFFI DE DESCRIPTION DI DE NOSTE BURBAL OFFI DESCRIPTION DI D	04 DESCRIPTION			
ON DESCRIPTION IN 1975 studge from on-side tagoons was reported by excavated and hauted off side. DI D.F. WASTE REPACKAGED ON DESCRIPTION DI D.G. WASTE DISPOSED ELSEWHERE DI D.H. ON SITE BURBAL DI D.H. ON	DITO'S CONTAMENATED SON BELANCED	02 DATEApril	1975 03 AGENCY	
O D F. WASTE REPACKAGED O4 DESCRIPTION O1 D G WASTE DISPOSED ELSEWHERE O2 DATE	ON DESCRIPTION IN 1975 SILV	idge from on-site la d hauled off site.	agoons was reperted	liy
O1 D G WASTE DISPOSED ELSEWHERE O2 DATE	OI DE WASTE REPACKAGED	02 DATE	03 AGENCY	
01 D K ON SITE BURNAL 02 DATE				
04 DESCRIPTION 01 D I. ON SITE BURBAL 04 DESCRIPTION 01 D I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION 01 D J. IN SITU BIOLOGICAL TREATMENT 05 DATE 03 AGENCY 01 D J. IN SITU BIOLOGICAL TREATMENT 06 DESCRIPTION 01 D L ENCAPSULATION 01 D L ENCAPSULATION 01 D L ENCAPSULATION 01 D M. EMERGENCY WASTE TREATMENT 02 DATE 03 AGENCY 01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION 01 D N. CUTOFF WALLS 05 DATE 03 AGENCY 06 DESCRIPTION 01 D N. CUTOFF WALLS 06 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 07 DATE 03 AGENCY 08 DESCRIPTION 08 DESCRIPTION 09 DESCRIPTION 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D P. CUTOFF TRENCHES/SUMP 09 DESCRIPTION 01 D D. SUBSURFACE CUTOFF WALLS 09 AGENCY 09 DATE 03 AGENCY 09 DATE 03 AGENCY	O1 D G WASTE DEPOSED ELSEWHERE	02 DATE	03 AGENCY	
01 D H. ON STE BURNL 04 DESCRIPTION 01 D I. IN STIU CHEMICAL TREATMENT 04 DESCRIPTION 01 D J. IN STIU BOLDGICAL TREATMENT 04 DESCRIPTION 01 D K. IN STIU PHYSICAL TREATMENT 05 DATE 06 DESCRIPTION 01 D L ENCAPSULATION 07 DESCRIPTION 08 DATE 09 AGENCY 09 DATE 09 AGENCY 09 DATE 09 AGENCY 01 D M. EMERGENCY WASTE TREATMENT 09 DATE 01 D N. CUTOFF WALLS 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D P. CUTOFF TRENCHES/SURP 09 AGENCY 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 09 DATE 09 AGENCY 09 DESCRIPTION				
01 D I. BITU CHEMICAL TREATMENT 02 DATE	OLD MONETE BURNE	02 DATE	03 AGENCY	
01 D I. N SITU BIOLOGICAL TREATMENT 02 DATE				
D4 DESCRIPTION O1 D J. IN SITU BIOLOGICAL TREATMENT O4 DESCRIPTION O1 D K IN SITU PHYSICAL TREATMENT O4 DESCRIPTION O1 D L ENCAPSULATION O4 DESCRIPTION O2 DATE	01 D I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
O1 D I N STU BIOLOGICAL TREATMENT O2 DATE	04 DESCRIPTION			
O4 DESCRIPTION O1 D K IN SITU PHYSICAL TREATMENT O4 DESCRIPTION O1 D L ENCAPSULATION O4 DESCRIPTION O1 D M. EMERGENCY WASTE TREATMENT O4 DESCRIPTION O1 D N. CUTOFF WALLS O4 DESCRIPTION O1 D N. CUTOFF WALLS O4 DESCRIPTION O1 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION O4 DESCRIPTION O1 D P. CUTOFF TRENCHES/SUMP O4 DESCRIPTION O1 D Q. BUBSURFACE CUTOFF WALL O2 DATE	01 D J. IN SITU BIOLOGICAL TREATMENT	O2 DATE	03 AGENCY	
01 D L ENCAPSULATION 01 D M. EMERGENCY WASTE TREATMENT 01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION 01 D N. CUTOFF WALLS 04 DESCRIPTION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION 05 D D D EMERGENCY DIKING/SURFACE WATER DIVERSION 06 DESCRIPTION 07 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 08 DATE				
O4 DESCRIPTION O1 D L ENCAPSULATION O1 D M. EMERGENCY WASTE TREATMENT O4 DESCRIPTION O1 D N. CUTOFF WALLS O4 DESCRIPTION O1 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION O4 DESCRIPTION O1 D P. CUTOFF TRENCHES/SUMP O4 DESCRIPTION O2 DATE	01 D K IN SITU PHYSICAL TREATMENT	02 DATE	O3 AGENCY	
01 D M. EMERGENCY WASTE TREATMENT 01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION 01 D N. CUTOFF WALLS 02 DATE	04 DESCRIPTION			
O1 D M. EMERGENCY WASTE TREATMENT O2 DATE	01 D 1 ENCAPSULATION	O2 DATE	03 AGENCY	
01 D N. CUTOFF WALLS 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 01 D P. CUTOFF TRENCHES/SUMP 01 D P. CUTOFF TRENCHES/SUMP 01 D P. CUTOFF TRENCHES/SUMP 01 D D O. BUBSURFACE CUTOFF WALL 02 DATE		1		
01 D N. CUTOFF WALLS 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION 01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D O. BURSURFACE CUTOFF WALL 02 DATE	ON I'M EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY	
01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 02 DATE				
01 D 0. EMERGENCY DIKING/SURFACE WATER DIVERSION 02 DATE	ALD M CAPACT WALLS	D2 DATE	03 AGENCY	
01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION 01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D Q. BURSURFACE CUTOFF WALL 02 DATE	04 DESCRIPTION	··-		
01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D Q. BUBSURFACE CUTOFF WALL 02 DATE	A P A THE PLAN PHINE SHIP ASE MA	TER DIVERSION 02 DATE	03 AGENCY	
01 D P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION 01 D Q. BURSURFACE CUTOFF WALL 02 DATE				
04 DESCRIPTION 01 D Q. BURSURFACE CUTOFF WALL 02 DATE	01 D P. GUTOFF TRENCHES/SUMP	Q2 DATE	Q3 AGENCY	
01 D Q. BUBSURFACE CUTOFF WALL 02 DATE 03 AGENCY	04 DESCRIPTION	-		
01 D Q. BURSURFACE CUTOFF WALL		TAN DA	03 AGENCY	
		W 6415		

≎EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	DI STATE DE SITE MANBER NY NY 10024 400
# PAST RESPONSE ACTIVITIES (Comment)		
01 D R. BARRIER WALLS CONSTRUCTED 94 DESCRIPTION	02 DATE	
.01 () 8. CAPPING/COVERING 64 DESCRIPTION	Q2 DATE	03 AGENCY
01 D T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY.
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	D3 AGENCY
01 D V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
D1 D Y. LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	03 AGENCY
01 B(Z. AREA EVACUATED 04 DESCRIPTION Lagoon housed o	area excavated and ff site.	sludge reportedly
01 D 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 [] 2. POPULATION RELOCATED 04 DESCRIPTION	O2 DATE	03 AGENCY
01 [] 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
		· .
IL SOURCES OF INFORMATION ROW SPECIES	references, e.g., state files, gample analysis, reports)	
NYS Department SCDHS Files	of Law Files	

WELY	8	EF	A
-------------	---	----	---

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

OI STATE OZ SITE NUMBER

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION (X YES D) NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Complaint, 1981

IIL SOURCES OF INFORMATION (City openities referenced, P.S., many field, compute analysis, reporter)

NYS Department. of Law Files

TABLE I SOURCES OF INFORMATION

Data Gathered	Office/ Agency	Location	Contact Person	Date of Visit	Date of Phone Conversation	Telephone Number
Critical Habitats	NYSDEC Division of Fish & Wildlife Significant Habitats Unit	Wildlife Resources Center Delmar, NY 12054	Larry Brown	12-11-84	several, 12/84	(518) 439-7486
Site Specific Information	NYSDEC Division of Solid and Hazardous Waste, Bureau of Municipal Waste	3 Vatrano Road Albany, NY	Hans Dirzuwelt Earl Barcomb	12-12 -84- 12-14-84	several, 12/84	(518) 457-2051
Historic/ Landmark Sites	NYS Dept. of Parks, Recreation & Historic Preservation Division for Historic Preservation	Agency Bidg #1 Empire State Plaza Albany, NY 12238	Lenore Kuwick	12-12-84	various, 12/84	(518) 474-3176
Wetlands	NYSDEC Division of Fish & Wildlife, Habitat Inventory Unit	Albany, NY	Sharon O'Connor		12/84	(518) 457-3431
Freshwater & Coastal Wetlands in Nassau & Suffoll Counties	NYSDEC-Region I	Bidg #40 SUNY Stony Brook, NY 11794	Mike Fiscina		several, 12/84; 1/85	(516) 751-1389
Freshwater and Coastal Wetlands in Kings County	NYSDEC-Region II	2 World Trade Center Rm 6126 New York, NY 10047	Joe Pane		various, 12/84	(212) 488-2758
Freshwoter and Coastal Wetlands in Albany and Rensselaer Counties	NYSDEC-Region IV	Rt. 10, Stamford, New York 12167	Maynard Vance		various, 12/84	(607) 652-7364
Site Specific Information	NYS Dept. of Health Division of Health Risk Control, Bureau of Toxic Substance Assessment	Corning Tower Bldg., ESP Albany, NY 12237	Ron Tramontano Steve Bates	12-12-84	various, 12/84	(518) 473-8427
Site Specific Information- Rensselaer Count Sites	NYS Law Department	Justice BldgRm 245 Albany, NY 13224	Michael Moore	12-12-84	various 12/84; 2/85	(518) 474-1190
Agricultural/ Prime Agri- cultural Land In Production	NYS Dept. of Agriculture and Markets, Divison of Rural Affairs	State Campus Bidg. No. 8, Room 805 Albany, NY 12235	Louise Inglis	12-13-84	various, 12/84	(518) 457-2713 -
Water Resources	NYSDEC Division of Water Resources	50 Wolf Road Albany, NY 12233		12-14-84	various, 12/84	(518) 457-5668

TABLE I

SOURCES OF INFORMATION (continued)

	Data Gathered	Office/ Agency	Location	Contact Person	Date of Visit	Date of Phone Conversation	Telephone Number
~	Site Specific Information	NYSDEC Division of Solid & Hazardous Waste	50 Wolf Rd. Albany, NY 12233	Anita Grikstas	12-14-84		(518) 457-0639
	Site Specific Information— Rensselaer County Sites	Rensselaer County Health Dept.	County Office Bidg. 1600 7th Ave. Troy, NY 12180	John Sheehan	12-27-84	several, 12/84; 2/85	(518) 270-2670
-	Site Specific Information- Albany County Sites	Albany County Health Dept.	South Ferry and Green Streets Albany, NY 12201	Cliff Forando Steve Lukowski Ben Pierson	12-28-84	several, 12/84	(518) 445-7835
:	Site Enforce- ment	NYSDEC Division of Environ- mental Enforcement	202 Marnaroneck Ave. White Plains, NY 10601	Mike Tone		several, 2/84; /85 -	(914) 761-6660
	USEPA "ERRIS" Site Numbers	USEPA-Region II Hazardous Waste Site Branch	26 Federal Plaza New York, NY 10278	Carol Peterson Kathy Moyik		several, 12/84; 1/85	(212) 264-4197 (212) 264-8672
••	Site Specific Information— Albany and Rensselaer County Sites	NY5DEC-Region IV	2176 Guilderland Ave. Schenectady, NY 12306	George Elston Mike Styk		various, ·12/84; 1/85	(518) 382-0680
	Site Specific Information- Suffolk County Sites	Suffolk Co. Dept. of Health Services	15 Horse Block Pi. Farmingville, NY	Frank Randall Jim Pim Jim Maloney		various 11/84; 12/84	(516) 451-4633
	Site Specific Information- Nassau County Sites	Nassau Co. Dept. of Health	240 Old Country Road Mineola, NY	Joe Schechter Larry Sang	12/13/84		(516) 535-2406
	Water Supply in Suffolk Co.	Suffolk Co. Dept. of Health Services	225 Rabro Dr. East Hauppauge, NY 11788	Paul Ponturo Richard Meyer		12/7/84	(516) 348-2886
	Site Specific Information- Kings County Sit	NYSDEC Region II	2 World Trade Center New York, NY	Armand DeAngelis Sai Ervolina	12/7/84	(212) 488-3862 12/26/84	
	Site Specific Information- Kings County Sit	NYCDEP	2358 Municipal Bldg. New York, NY 10007	Tim Slauson Anthony lanarelli Stacy Moriates Stan Cepenberg Kim Sparber		12/27/84 12/20/84 12/7/84 12/10/84 12/10/84	(212) 669-8934 (212) 669-8939 (212) 566-8977 (212) 566-2717 (212) 566-1647
	Site Specific Information- NYSDEC Region I & II Sit	NYSDEC Region I	Building 40 SUNY at Stonybrook	Bob Schneck Bob Becherer	various 12/84		(515) 751-7900
~	Well Points NYSDEC Region I & II Sites	NYSDEC Region I Well Points	Building 40 SUNY at Stonybrook	Tony Candella	12/12/84		(516) 751-7900

Jameco Industries, Inc. is located in western Suffolk County approximately 0.5 mile north of the Southern State Parkway. The approximately 6-acre site on Wyandanch Avenue is in a mixed-industrial/commercial/residential area.

The site consists of the main process building with offices, a warehouse, above ground tanks, an area of abandoned and filled sludge beds, and a leaching field composed of 48 leaching pools. Two wells are located on site: a production well and a diffusion well.

The Jameco facility is at an elevation of 50 feet and is relatively flat. Drainage from the site is east-southeasterly towards Carlls River and Belmont Lake. The site is located less than 0.5 mile from Belmont Lake State Park which is at an average elevation of 35 feet. Carlls River, also located less than 0.5 mile from the site, drains into Belmont Lake, flows through wetlands less than one mile downstream, and drains into other surface water bodies before ultimate drainage into Great South Bay. Belmont Lake and the associated park land is used for recreation.

The site is located in a densely populated area of Suffolk County where more than 100,000 people within a 3-mile radius of the site depend on ground water as a sole source of potable supply. The Suffolk County Water Authority operates two municipal supply wells within a few hundred feet of the Jameco site and private supply wells are located within one mile of the site.

The closest residence is located adjacent to Jameco's southern property boundary. Some residences depend on private wells in this area downgradient of the Jameco site. Half a dozen schools are located within a one-mile radius of the facility.

4.1 SITE AREA SURFACE FEATURES

The Jameco site occupies a relatively flat 6-acre parcel of land in western Suffolk County. The site elevation is 50 feet above mean sea level without major topographic changes in the vicinity. A modest slope of less than I percent exists between the facility and natural downslope surface water bodies. Carlls River flows into Belmont Lake approximately 0.5 mile downgradient of the site. Carlls River flows from Belmont Lake through a freshwater wetland less than I mile south of the lake into Southards Pond and ultimately into Great South Bay.

The site is situated in a relatively densely populated residential area. A small wooded area lies immediately west of the site and the Belmont Lake State Park is only 2000 feet east of Jameco. Other industrial facilities are located north-northeast of the site on Wyandanch Avenue. Several cemeteries are located about one mile west of the Jameco facility. Half a dozen schools are located within one mile of the site.

4.2 SITE HYDROGEOLOGY

4.2.1 Ground-Water Occurrence

Ground water in the site area occurs primarily in unconsolidated sediments of Pleistocene and Upper Cretaceous age. These sediments are approximately 1350 feet thick and they overlie Precambrian crystalline bedrock (Jensen and Soren, 1974). The low hydraulic conductivity bedrock is considered to be the bottom of the ground-water reservoir (Jensen and Soren, 1974).

The site is underlain by Pleistocene glacial outwash deposits that are approximately 110 feet thick. The aquifer in these deposits is referred to as the Upper glacial aquifer (Jensen and Soren, 1974). The Pleistocene glacial deposits overlie fluvio/deltaic deposits of the Upper Cretaceous Magothy Formation (approximately 700 feet in thickness) in which the Magothy aquifer occurs. Good vertical hydraulic conductivity exists between the Upper glacial and Magothy aquifers. Together these aquifers comprise the principal aquifer (Jensen and Soren, 1974).

The Magothy Formation unconformably overlies the Upper Cretaceous clay member of the Raritan Formation which in turn overlies and confines the Upper Cretaceous Lloyd sand member of the Raritan Formation. The Lloyd sand member, which constitutes the deep confined aquifer in the site area, overlies Precambrian crystalline bedrock.

The depth to ground water below the site is about 10 feet (Leo M. Page, 1982). The horizontal direction of ground-water flow in both the principal aquifer and deep confined aquifer is south-southeast (Jensen and Soren, 1974). Ground water in the Upper glacial aquifer in the site area is likely to be under water table conditions. Water in the upper portion of the Magothy aquifer is also likely to be under water table conditions but it becomes more confined with depth. Recharge to the deep aquifer is by slow leakage down through overlying sediments.

4.2.2 Ground-Water Quality

The concentrations of chemical parameters tested for in ground water throughout much of Suffolk County are generally below the recommended maximum limits established by the U.S. Public Health Service (Jensen and Soren, 1974). However, it is now well established that local ground-water quality problems exist, due to both natural and man-made causes. The vertical hydraulic connection between the Upper glacial and Magothy aquifers throughout most of Suffolk County poses an additional

threat to ground-water quality once the upper water table becomes contaminated.

Local contamination by domestic waste, industrial waste and rock salt has caused some alteration of the regional ground-water quality. Salt water intrusion has not been reported in the site area. In western Suffolk County particularly, high nitrate concentrations have been discovered in both the principal aquifer and the deep confined aquifer (Franke and McClymonds, 1972). The primary source of nitrate contamination is believed to be sanitary systems, particularly cesspools, and in some areas, the use of fertilizers.

4.2.3 Ground-Water Use

Ground-water is heavily relied on in this region of Suffolk County mainly for potable supply. The Suffolk County Water Authority (SCWA) operates several public supply wells within a 3-mile radius of the site. Two deep SCWA muncipal wells are located within a few hundred feet of the Jameco Facility (NYS DEC 1984b). The SCWA serves approximately I million people county-wide. The Dix Hills Water District also maintains public supply wells in the vicinity and serves 30,000 people within a 3-mile radius of the site. An unknown number of private supply wells are also located within a 1-mile radius of the site. Ground water from wells within 3 miles of the site serve residential, municipal, commercial and industrial needs.

Jameco Industries Inc. has two wells on its property: a production and a diffusion-well. In the application originally filed for Jameco (LIWRC, 1964), one of the on site wells was also indicated for use as potable supply. It is believed that water from the on-site well is no longer used for potable needs.

4.3 PAST SAMPLING AND ANALYSIS

Soil, wastewater effluent, leaching pool and ground water samples have been collected and analyzed on various occasions during the period 1979 to 1984. Results of analyses are located in Appendix B.

Ground-water samples analyzed from private wells (located in the downgradient direction of ground-water flow) in 1976 and 1979 indicate high levels of hexavalent chromium, trichloroethane and tetrachloroethylene (Belli, 1977; SCDHS 1979c; SCDHS, 1980).

Analyses of ground water samples collected during boring installation by Allee, King, Rosen & Fleming in 1981 may not accurately reflect water quality at the site. Water samples were collected during boring installation upon reaching the water table, rather than from a properly installed ground water quality monitoring well.

Ground water and leaching pool samples collected at Jameco's property in 1983 showed concentrations of volatile organics including trichloroethylene and tetrachloroethylene. Heavy metals have also been detected in soil and leaching pool samples collected at the site.

Available data were somewhat adequate for the development of a preliminary HRS score for the Jameco Industries, Inc. site.

Data necessary to score Hazardous Waste Quantity for the Ground Water Route Work Sheet were inadequate or unavailable. A score of eight (8) was given for this factor based on the contaminated discharge flow for the years of operation and was indicated with a square on the worksheet. Ground water is the primary route of concern for this site.

The Surface Water Route in contrast, scored much lower primarily because available data did not indicate surface water use for drinking water. The Hazardous Waste Quantity was given a score of eight (8) based on available data and was indicated with a square on the worksheet.

6.1 OBJECTIVES

The objective of this proposed work plan is to collect additional field information required to adequately prepare a final HRS Score and develop conceptual remedial action designs and costs. The work plan for this site has been designed to primarily address questions concerning the nature and extent of soil and ground-water contamination, and to confirm the direction(s) of ground-water flow.

6.2 FIELD INVESTIGATION PLAN

6.2.1 Preliminary Site Investigations

A preliminary site investigation will be made initially to tentatively select the monitoring well locations, to evaluate the means of drill rig access in each case and to identify and contact property owners if access is required off site. It is estimated that approximately 2 person-days (2 people, one day) will be required for this work.

6.2.2 Geophysical Studies

As part of the on-site field investigation to characterize the hydrologic regime, a geophysical survey utilizing the terrain conductivity technique will be performed at the site. This technique has been utilized successfully in locating subsurface plumes of many different substances, including organic compounds and metals which are of concern at this site.

F62.6/238

The geophysical survey will be conducted using the Geonics EM-31 terrain conductivity meter. This equipment is required in order to evaluate subsurface conditions at shallow exploration depths. Measurements will be taken in selected areas of the site to determine expected ranges of background or upgradient conductivity. Measurements will also be taken across the site and in the expected downgradient directions, both on and off site, if feasible, in the expected direction(s) of ground-water flow which is toward Belmont Lake. The EM-34 used to evaluate subsurface conditions at greater depths, is not recommended for use at this site. The many interferences that exist at this site preclude rational interpretation of any data gathered using the EM-34.

Readings will be taken at 3 meter and 6 meter exploration depths with the EM-31 to evaluate whether vertical or horizontal soil and ground-water contamination exists. The conductivity survey will also provide information necessary to delineate the near surface contamination plume that is likely to exist. The conductivity survey should also provide information for delineating the area of abandoned sludge beds. Following the preliminary site investigation, the proposed geophysical survey may require modification based upon site conditions.

It is estimated that a two-person team will require two days in the field to perform the conductivity survey, with readings taken at two depths at each measurement station. The data will be plotted on maps and contoured. This work is estimated to take one person three days to complete. These contour maps will provide the basis for delineating any contaminant plume and will provide information necessary to determine the exact location of the ground-water monitoring wells.

6.2.3 Monitoring Wells

6.2.3.1 <u>Installation</u>. Monitoring wells will be installed to provide data pertinent to both water chemistry and the stratigraphy and ground-water

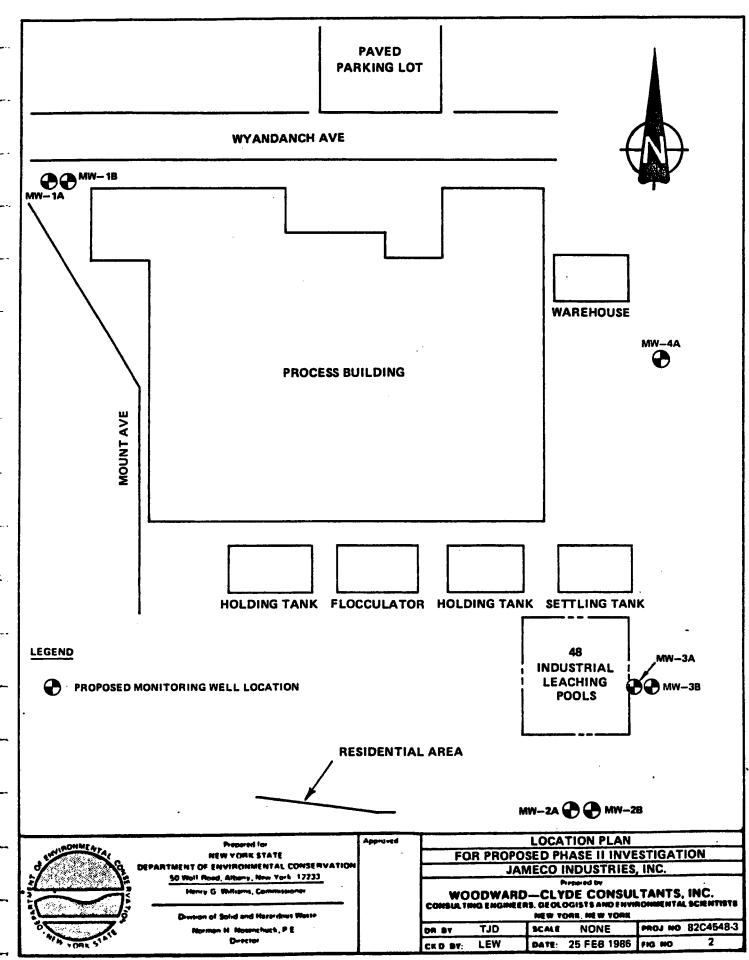
regime at the site. It is recommended that seven monitoring wells (3 nested pairs and one single well) be installed at the approximate locations shown in Figure 2. Finalized well locations will be determined after the geophysical data have been plotted and analyzed.

One nested pair of wells (MW-IA-IB) will be installed at a presumed upgradient location, near Wyandanch Avenue on the north western edge of the property. These wells will provide background information on the ground water flowing into the site area. Two additional pairs of nested wells and one additional single shallow well will be required to monitor downgradient flow directions and water quality. Wells MW-2A-2B, MW-3A-3B, and MW-4A will be installed at the approximate locations shown in Figure 2. The conductivity data will be analyzed prior to finalizing locations for downgradient wells so that these wells will be optimally placed to determine whether contamination exists from waste disposal on site. To reduce additional drilling costs, a residential well will be selected for sampling to determine downgradient water quality off site.

Shallow monitoring wells will be installed so as to sample the upper 10 feet of ground water. The ground-water table in the glacial deposits is less than 10 feet. Therefore, the anticipated depth of the shallow wells is estimated at 20 feet. The deep wells are anticipated to reach 110 feet. Clay is expected to be encountered at 100 feet. The reason for installing deep wells to the top of the clay layer is because some of the contaminants expected to exist at the site are heavier than water and may tend to sink through the water table and accumulate on top of a confining layer.

The wells should be installed in two phases. Initially, the shallow wells should be installed and sampled. If contaminants attributable to the site are detected in the shallow wells, there would be no need to look deeper as an observed release from the site will have been established. If, however, the shallow wells are clean, the deeper wells would be needed to confirm that the site is in fact not a source of ground water contamination.

] ---



Borings will be advanced through the overburden by 4-inch I.D. hollowstem augers or driven casing, with continuous split-spoon sampling to 15 feet then at 5-foot intervals thereafter. Blow counts will be recorded during each sampling. A portable HNU meter, Model PI 101 will be used during drilling to determine whether any volatilization of organic compounds is occuring. samples will be classified in the field by a hydrogeologist using the Unified Soil Classification System. Selected samples will be sent to our geotechnical laboratory for grain-size analysis, soil-moisture determinations, and possibly Atterberg tests. It is estimated that two samples from every newly installed well will be collected and analyzed for each of these tests. To maximize information on any volatile organic contaminants that may be present headspace surveys will be conducted on soil samples using a portable HNU meter. These data will be used to evaluate relative concentrations of organic contaminants in various stratigraphic horizons.

Slotted 2-inch I.D. PVC well screen will be installed over 10-foot intervals in well, with a riser casing of flush joint, threaded, 2-inch I.D. PVC pipe. Due to relatively high permeabilities expected, 4-inch wells may be needed to obtain reliable data from the permeability tests. This option should be considered in preparing the final work plan. In low-lying areas, risers will extend at least 3 feet above the ground surface to prevent contamination by surfacewater flooding. A gravel pack will be completed to approximately 2 feet above the top of the screen, where a 1-foot bentonite seal will be emplaced. To further assure that water samples will be representative of the screened interval, the remaining annular space will be grouted, and a protective steel casing will be installed. After installation, wells will be developed by pumping to remove any fine-grained material.

It is estimated that 20 days will be required for drilling, installation and development of the seven wells, performing the organic-vapor survey, surveying newly-installed well elevations and data reduction.

6.2.3.2 <u>Water-Level Elevations</u>. Ground-water depths will be measured at the time of well installation and well development and again at the time of sampling. Relative well elevations will be surveyed and water-level elevations will be plotted and used to develop contours of the ground-water table at the site. Based on this map, the direction(s) of ground-water flow will be determined.

Well elevations will be measured relative to an arbitrary datum established at the site. It is estimated that one day will be required by a two-person crew to perform a leveling survey at the site. This time is included in the time estimates given in section 6.2.3.1.

Flow and gradient data will represent fundamental input in quantifying site conditions and will be assessed together with any plume geometries inferred from geophysical survey data.

6.2.3.3 Aquifer Testing. "Slug"-type permeability tests will be conducted in each newly installed well to evaluate the permeability of materials spanning the screened interval. The method is a rapid means by which the in-situ permeability in the immediate vicinity of a monitoring well can be approximated. The test does not involve pumping of potentially contaminated water, and the results generally suffice for ground-water flow analysis.

6.2.4 Sampling and Analysis Plan

- 6.2.4.1 <u>General Plan.</u> The site-specific Quality Assurance/Quality Control (QA/QC) Plan will be developed by WCCI and approved by the NYSDEC prior to commencement of work.
- 6.2.4.2 <u>Sampling Parameters</u>. The laboratory analysis will focus on chemical screening techniques to determine the type of contamination, range of concentration, and the migration of contaminants if present, in soil and ground water. Suspected contaminants include priority pollutant volatile organics, metals,

Table 2. PROPOSED CHEMICAL ANALYSES AT THE JAMECO INDUSTRIES, INC. SITE

		ANALYSES						
Sample Type	Priority Pollutant +40	Priority Pollutant Volatile Organics	Priority Pollutant <u>Metals</u>	Cyanide	<u>Remarks</u>			
Ground Water	X				One sample at each of six (nested) wells.			
		×	x	x	One sample from shallow monitoring well and one sample from private downgradient well.			
Soil	×		·		One sample from unsaturated zone at each of six nested wells.			
		x	X	x	One sample from single shallow monitoring well.			
Air	x				Upwind and downwind locations using HNU or OVA.			

and cyanide. However, other contaminants may be present at the site. Therefore, we recommend a full priority pollutant analysis plus 40 be conducted on all samples collected from nested wells. Samples collected from the single shallow well and the off-site domestic well will be analyzed for priority pollutant volatile organics and metals. Samples will be collected from ground water and soils at the site. Sample types and chemical parameters to be analyzed for are summarized in Table 2. It is advisable that surface water and sediments be sampled downgradient of the site. The surface water bodies less than 0.5 mile from the site are discharge points for ground water flow. For the purpose of this investigation, surface and water sediment sampling and analysis is not included.

6.2.4.3 <u>Sampling Locations.</u> One water sample and one soil sample from each of the seven monitoring wells will be analyzed. If obviously contaminated surface soil is encountered in other areas of the site, additional soil sampling should be considered. In addition, one water sample from a nearby domestic downgradient well will be sampled and analyzed. Results of each pair of analyses will be compared to evaluate any downward migration of contaminants through soil. Ground-water analyses will be evaluated in terms of other hydrogeologic data to evaluate the presence, distribution, and migration directions of any ground-water contamination plumes.

It is estimated that 8 person-days will be required to perform slug tests on all the wells, plot data and collect are necessary samples for laboratory analysis and testing. This estimated time includes a two-person crew at the site, as required for potentially hazardous waste sites.

A preliminary air quality survey will be conducted at upwind and downwind locations using the HNU or OVA, and will allow for determination of whether or not organics are being released from the site.

6.3 HEALTH AND SAFETY PLAN

Health and safety apparel and equipment are expected to be required during the major field activities — initial site investigation, geophysical studies, drilling and monitoring-well installation and water sampling. For the purpose of costing the investigation, Level D protection is assumed in each case. The health and safety precautions and procedures actually employed will conform to the generalized NYSDEC Health and Safety Plan, and will be developed by WCCl on a site-specific basis. Should protective levels higher than Level D be required for any activity, the costs for the activities would require adjustment.

6.4 REPORT PREPARATION

Report Preparation will involve analysis of the data as well as preparation of the text. Included in this task are the compilation and organization of the data, editing of boring logs, preparation of graphical representations, analysis and calculations, updating the HRS score for the site and report reproduction. If necessary, remedial concepts will be developed along with order-of-magnitude remedial costs.

6.5 COST ESTIMATE

Costs for Phase II work were developed based on NYSDEC Audit and Control Guidelines, using assumptions described in WCCI's cost proposal submitted to the NYSDEC on October 29, 1982, subsequent contract D000452 dated March 31, 1983, and the generic work plan developed by the NYSDEC. Costs have been grouped by task, and estimates are presented in Table 3. Lump sum cost arrangements will be provided for Tasks 1, 2, 3, 6 and 7. For Tasks 4 and 5, Drilling/Well Installation and Sampling and Analysis respectively, lump sum cost arrangements will be provided with the exception of drilling and well installation subcontracted costs, and chemical analytical laboratory subcontracted costs. Analytical costs include trip and field blanks spike and replicate and shuttle

cost's as required by the NYSDEC QA/QC laboratory protocol. The subcontracted cost items will be billed at cost plus five percent. Any activity that involves work or levels of effort beyond the scope of this work plan will be billed in accordance with the Woodward-Clyde Consultants, Inc. rates prevailing at the time work is conducted.

ESTIMATED COSTS FOR PHASE II INVESTIGATION JAMECO INDUSTRIES, INC.

***************************************	•	U	PBOR	4	1			OTHER DIR				4	ł
TASKS	Hours	Direct Cost	Overhead Cost	Total Cost	Consul- tants	Sub-Con- tractors	Travel & Subsis- tence	Health & Safety Gear & App (1)	Special Testing	Special Equip- ment	Sample Shipment	Office of Services of (2)	tota
Work, Health & Safety and QA/QC Plans	75	1385	1593	2978			•••••••	0		6		290	31
. Preliminary Investigations and Site Visit	22	484	465	869		200 (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	78	148		275		• • • • • • • • • • • • • • • • • • •	• • • 13
. Geophysical Studies	64	1179	1356	2535		· · · · · · · · · · · · · · · · · · ·	288	288		750	·	• ·	38
. Drilling/Well Installation	189	3339	3830	7168		15789	1544	1190	2095	3170	250	•	
. Sampling and Analysis	72	1332	1532	2864		67095	648	560		1390	659		• • 73
. Report Preparation	156	2961	3406	6367	1599		9	8		9		1467	• • • 9:
'. Project Management	82	2049	2357	4496			458	0				489	• • 5
TOTALS	651	12642	14538	27179	1500	82875	3917	2178	2095	5585	988	2867	± 127
FEE H***********************************				4877	75	4144							# 8
TOTAL ESTIMATED COST				31256		87019	3017		2895	5585			• • 1350

- John E. Connors and Associates, 1984, Report Evaluating Wastewater Treatment Facilities at Jameco Industries, Inc., Syosset, New York (Location: WCCI Files).
- 21 Leo M. Page, 1982, Letter Report: Ground Water Investigation, Jameco Industries, Wyandanch, Long Island, New York, dated 5 March (Location: WCCI Files).
- Long Island Water Resources Commission, 1964, Decision on Long Island Well Application No. W-2298 dated 2 April (Location: WCCI Files).
- NYS Department of Agriculture and Markets, 1985, Agricultural Districts
 Map, Division of Rural Affairs (Location: NYSDA&M/Albany Files).
- NYS DEC, 1965, Long Island Well Completion Report, Well Nos. S-23848, S-25674, Suffolk County Water Authority, (Location: WCCI Files).
- NYS DEC, 1975, Water Pollution Control Section, Letter from R. Gilbert to R. Kiley, Re: Sludge Discharge to Ground, dated 12 November 1975 (Location: WCCI Files).
- NYS DEC, 1980, State Pollutant Discharge Elimination System (SPDES)
 Discharge Permit, (Location: WCCI Files).
- NYS DEC, 1984a, Notice of Complete Application for SPDES Permit, dated 9 April (Location: WCCI Files).
- 29 NYS DEC, 1984b, Well Permits-Region I, (Location: NYS DEC Region I Files).
- 25 NYS DEC, 1986a, Listings and Maps of Significant Habitats in Suffolk County, Division of Fish and Wildlife, Significant Habitats Unit (Location: NYS DEC/Region I Files).

CN87-103 2 82C4548-4A7

- NYS DEC, 1986b, Freshwater Wetlands Maps of Suffolk County, USGS, Bay Shore West and Adjacent Quads, Division of Fish and Wildlife, (Location: NYS DEC/Region I Files).
- NYS DEC, 1986c, Tidal Wetlands Maps of Suffolk County, Division of Fish and Wildlife (Location: NYS DEC/Region I Files).
- NYS Department of Health, 1982, NYS Atlas of Community Water System Sources (Location: WCCI Files).
- NYS Department of Law, Undated, Memorandum of Information concerning Jameco Industries, Inc. (Location: WCCI Files).
- NYS Department of Law, 1981, Complaint against Jameco Industries, Inc. by the State of New York (Location: WCCI Files).
- NYS Office of Parks, Recreation and Historic Preservation, 1984, Files of Suffolk County Historical Sites Listed on State and Federal Registers, Historic Preservation Field Services Bureau (Location: NYSP&R/Albany Files).
- NYS Office of Parks, Recreation and Historic Preservation, 1984, National Register of Historic Places and National Registry of Natural Landmarks, Historic Preservation Field Services Bureau (Location: WCCI Files).
- Pim, J., February 3, 1987, Personal Communication with M. Akerbergs of WCCI (Location: WCCI Files).
- Sax, N.I., 1979, Dangerous Properties of Industrial Materials, Van Nostrand Reinhold Company, New York, (Location: WCCI Files).

- 3 Suffolk County Department of Health Services, 1973, Interoffice Memorandum from J. Pim to File, Re: Jameco Industries, Inc., Inspection conducted 27 November (Location: WCCI Files).
- Suffolk County Department of Health Services, 1979a, Correspondence dated 15 June from S. Costa (Industrial Waste and Hazardous Materials Control Section) to I. Gajer (Jameco Industries, Inc.), Re: Jameco Site Violations Noted During 31 May 1979 Site Inspection (Location: WCCI Files).
- 7 Suffolk County Department of Health Services, 1979b, Interoffice Memorandum from L. Copertine to Files, Re: Jameco Industries, Inc., Drum Storage Area, dated 10 January (Location: WCCI Files).
- 9 Suffolk County Department of Health Services, 1979c, Interoffice Memorandum from Richard Markel to Joseph Baier, Re: Origin of Organic Contamination at 94 Ulster Avenue in Wyandanch (Location: WCCI Files).
- Suffolk County Department of Health Services, 1979d, Memorandum from R. Olsen to J. Soderberg, Re: Site Inspection on 20 September 1979, Conducted by R. Olsen (Location: WCCI Files).
- 12 Suffolk County Department of Health Services, 1980, Interoffice Memorandum from R. Markel to J. Pim, Re: Investigating Origin of Organic Contamination at 94 Ulster Avenue in Wyandanch, New York (Location: WCCI Files).
- 37 Suffolk County Department of Health Services, 1983a, Chemical Analytical Data from Industrial Waste Leaching Pools (Location: WCCI Files).

82C4548-4A7

- 19 Suffolk County Department of Health Services, 1983b, Standard Worksheet for Determination of Toxicity of Contaminated Pools, Contaminant Concentrations in Leaching Pool Samples dated 18 April (Location: WCCI Files).
- 37 Suffolk County Department of Health Services, 1984, Chemical Analytical Data from Industrial Waste Pools (Location: WCCI Files).
- 34 Suffolk County Department of Health Services, 1986, Telephone Conversation Between SCDHS and WCCI Personnel (Location: WCCI Files).
- 27 Suffolk County Water Authority, 1986, Telephone Memorandum, Conversation Between SCWA and WCCI, Re: Wyandanch Water Supply Wells (Location: WCCI Files).
- Town of Babylon, Environmental Control, 1981, Letter from D. Lynch to C. Moore, New York State Department of Law, dated 5 November, Re: Private Well Contamination (Location: WCCI Files).
- 5 US Department of Agriculture, 1975, Soil Survey of Suffolk County Soil Conservation Service (Location: WCCI Files).

CN87-103 5 82C4548-4A7

REFERENCES

No.

- 17 Allee King Rosen and Fleming, Inc., 1981, Results of Soil and Water Testing (Location: WCCI Files).
- Belli et al, 1977, Letter with Attached Chemical Analysis from Lauman Laboratories, Inc. (Location: WCCI Files).
- 23 Donnelley Marketing, 1984, American Profile Information Retrieval System, based on 1980 Census Data, Stamford, CT (Location: WCCI Files).
- Donnelly Engineering, 1980, Application for Waste Disposal Permit Engineering Report, Part I, Submitted to NYSDEC by Jameco Industries, Inc., August (Location: WCCI Files).
- Franke, O.L. and McClymonds, N.E., 1972, Summary of the Hydrologic Situation on Long Island, New York, as a Guide to Water-Management Alternatives, U.S. Geological Survey Professional Paper 627-F, Washington, D.C. (Location: WCCI, Files).
- 26 Jameco Industries, Inc., 1985, Letter from D. Dowden of Jameco to C. Motta of Woodward-Clyde Consultants, Inc. dated 15 February (Location: WCCI Files).
- Jensen, H.M. and Soren, J., 1974, Hydrology of Suffolk County Long Island, New York, U.S. Geological Survey, Hydrologic Investigations Atlas HA-501, Washington, D.C. (Location: WCCI Files).

82C4548-4A7

1

1 1. 3

ORIGINAL—TO COMMISSION

	•	
→County	Suffolk	
	W513.4716	•
		(

State of New York
Department of Conservation
Division of Water Resources

TION PEDODE LONG ISLAND WELL

Well No.	57426.14
	(on preliminary reports
	LOG
Ground Surf.,	LOC Elft. above sea

COM	PLETION REP	ORT—LONG	ISLAND WE	LL			
					Tcp	of 1\	'ell
Owner	Suffolk Co	unty Water	Authority	************			
Address	Oskdale		AF CT	*********		i	
AddressLocation of well	Wyandench	200'N /	WYNANIA	NCE ALE			
Dept of well below surface					į		
Depth to ground water from							
Casings:			•			. 9)
Diameter16††	in12"	inin.	in	in.			
Length 0-2491-8"						1	
Sealing	************************	*********	***************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			· X
Carinar removed							,
Screens: MakeJohns: Diameter	or Everdur	Ononin	# 70 S1	ot		Q I	رکہ.
Screens: Make	·	Openių	gs/!		-29h		ما
Diameter	In	III		f+	$\leq \sigma_{k}$	<u>ර</u> ු	
Length	II			f.	7	'	
Depth to top from top	of casing			****************	1		
PUMPING TEST: Date	.0/25/65	Test or perm	anent pump?	Test			
Dunction of Test	Three (3)	dave		hours	-		. ه. . چينځسره سيند اگر افغاه د د د د
Maximum Discharge. Static level prior to to	15151		gallons	per minûtēA]	E UF	MEW	ANKW !
Static level prior to to	st12†	ft5"	in. below to	ob ot casiu¶∀.	TER RE	SOU	RCES
Level during Max. Pu	mping491	ft5"	in. below to	p of casing	l		ţ
Maximum Drawdowr	37 1	***********		ft.	MAY 2	उ हि	,00 V
Approx. time of return	to normal level a	after cessation			COMIN	:2S! [‡]	N I
of pumping	*****************	hours			ECE		
July Jay				<u> </u>		-	

Type Dw T Make Lagree Bowles Model No. 2000 Motive power Lec Make US H.P. 100

Capacity 1200 g.p.m. against 1749 ft. of discharge head

No. bowls or stages ft. of total head

 Work started
 9/7/65

 Completed
 9/27/65

 Date
 May 20, 1966

 Driller
 Co. W. Lauman & Co., Inc.

License No. 13

Note: Show log of well—materials encountered, with depth below ground surface, water bearing beds and water levels in each, casings, screens, pump, additional pumping tests and other matters of interest. Describe repair job.

- My ingle

THER OFFICE MEMORANDUN

DEPARTMENT OF ENVIRONMENTAL CONTROL

Date: Nov. 27, 1973

To FOR THE RECORD

From. James Pim

Subject Jameco Industries Corp. Wyandanch Ave., Wyandanch, N.Y.

Mr. Watt and I inspected the above facility today accompanied by Mr. Isidore Lionan. We toured the entire plant and the plating and treatment facilities.

I noticed the following items:

- 1. There is no treatment at all following nickel plating.
- 2. Except for 2 static drag-out rinse tanks used in the automatic plating line there is apparently no conscience effort to minimize water usage. Running rinses are left on continuously even when operations are not in use.
- 3. All floor spill waste goes to the floor spill waste treatment tank, is treated and then discharged to the sludge bed. Every 2 or 3 months when the cyanide and chrome treatment tanks are cleaned, the sludge in the tanks is suspended and pumped into the floor spill treatment tank and then directly out to the sludge pit.
- 4. There are 2 sludge pits, perhaps 30' in diameter claimed to be about 7' deep. One is filled to the top with dried sludge. The other is filled to the top with liquid.
- 5. All rinses flow through a concrete settling tank where caustic is added if necessary for pH adjustment. They flow to a second concrete settling tank and then into 13 leaching pools. The leaching pool area is completely flooded indicating that all of the pocls are plugged. It was claimed that the pools are pumped on a regular basis and sludge is removed. Sludge is also removed from the 2 settling tanks but it wasn't known where the sludge was taken.

Nov. 27, 1973

- 6. There is a great deal of cutting oil used in the plant and quite a bit of oil is on the ground behind the plant. The engineering reports should cover clearly what the handling procedure is for waste oil.
- 7. There is a soldering operation followed by a quench water, which no doubt contains lead and perhaps fluorides or some other material from the flux. The quench water is pumped through a pipe away from the solder location but I did not determine to where it is pumped.
- 8. All tanks are heated by steam coils inside the tanks so the boiler blow-down should be checked for contamination.
- 9. Large multimedia filters are used for filtering the copper, nickel and chrome plating tanks. These are periodically cleaned by removing the filtering material and replacing it drummed and apparently removed to the local landfill site. This should no longer be permitted as the filter media is, no doubt, highly contaminated with concentrated plating solution.
- 10. The final pH chart recorder was not in operation.
- 11. The plant should be checked carefully for cross connections.
- 12. Removal of sludge from treatment tanks is manual on a very infrequent basis. Frequent removal would probably greatly improve the efficiency of the operation and minimize drag-out.
- 13. Quench water from the annealing furnaces should be treated with copper waste.
- 14. Samples should be taken out of the second concrete settling tank and from the sludge holding pit, which is in use. Sludge samples should be analyzed both before and after filtration. Sample analyses should be for at least the following:

lead, nickel, copper, hexavalent chrome, trivalent chrome, zinc, iron, pH, fluoride, detergent, total dissolved solids, suspended solids, turbidity, sulphates, nitrates.

Tames Pim

Pumpage from Suffolk County's aquifers increased from about 40 mgd in 1950 to about 155 mgd in 1970, to supply a population that has been increasing rapidly since the end of World War II. The greatest increases in population and ground-water pumpage have been in the western part of the county. Before about 1960, wells tapping the upper glacial aquifer supplied nearly all the water used in Suffolk County. Since then pumpage from the Magothy aquifer has increased, and in 1970, the wells tapping the Magothy aquifer supplied about one-third the water used. (See map showing areal distribution of major pumpage by aquifer 1970.)

CHANGES OF GROUND WATER IN STORAGE

An area of about 140 square miles in west-central Suffolk County is underlain by about 4.5 trillion gallons of fresh water (Soren, 1971a, p. 20). By extrapolation, the total fresh ground water beneath all the county is probably 4 to 5 times this volume.

Withdrawals of ground water have caused the water table in some parts of the county to decline as much as 25 feet from earliest known levels in 1903 (map showing net change in the position of the water table) and have probably caused a small regional but generally undetected landward advance of salty ground water. The decline of the water table reflects a loss of 60 to 80 billion gallons of fresh water from the ground-water reservoir between 1903 and 1971. However, this loss of ground water from storage is less than 1 percent of the total ground water in storage in Suffolk County.

SELECTED REFERENCES

Cohen, Philip, Franke, O.L., and Foxworthy, B.L., 1968, An atlas of Long Island's water resources: New York Water Resources Comm. Bull. 62, 117 p.

- 1970, Water for the future of Long Island, New York: New York State Dept. Environmental Conserv. Water Resources Bull. 62A, 36 p.

Cohen, Philip, Franke, O.L., and McClymonds, N.E., 1969, Hydrologic effects of the 1962-66 drought on Long Island, New York: U.S. Geol. Survey Water-Supply Paper 1879-F, 18 p.

Cohen, Philip, Vaupel, D.E., and McClymonds, N.E., 1971, Detergents in the streamflow of Suffolk County, Long Island, New York, in Geological Survey Research, 1971: U.S. Geol. Survey Prof. Paper 750-C, p. C210-C214.

Collins, M.A., Gelhar, L.W., 1970, Ground-water hydrology of the Long Island aquifer system: Mass. Inst. Techno-Inov Hydrodynamics Lah Rent no 122 185 n

EXPLANATION

Lloyd aquifer_0.2 Magothy

APPROXIMATE AREAL CENTER OF MAJOR **GROUND-WATER PUMPING AND SOURCE** AQUIFERS - Diameter of circle is proportional to pumpage; number is average daily pumpage, in million gallons per day

aquifer Upper glacial aquifer

Jensen and Soren, 1974

MAP SHOWING POTENTIOMETRIC SURFACE OF WA Map Showing Areal Distribution of Major Pumpage by Aquifer, 1970 (Jensen and Soren, 1974). industrial cooling is returned, with higher temperatures, through recharge wells to the ground-water reservoir. Ground water pumped for crop irrigation and lawn sprinkling mostly represents a net loss from the system by evapotranspiration. Artificial filling of marshy shore areas has probably reduced

evapotranspiration.

In 1970, gross ground-water pumpage in Suffolk County was 155 mgd (New York State Department of Environmental Conservation, written commun., June 1, 1971). An unknown amount of the pumpage was consumed by evapotranspiration, and virtually all the remainder (probably more than 75 percent) was returned to the ground through local wastedisposal facilities.

MOVEMENT OF GROUND WATER

Ground water moves from three major drainage subareas toward discharge at or near the shore. These subareas are (1) the main land area of the county from the Nassau County boundary to a point near the Brookhaven National Laboratory, (2) the north fork, from the Brookhaven National Laboratory to Orient Point, and (3) the south fork, from the Brookhaven National Laboratory to Montauk Point. The ground-water divides of these subareas form a "Y"-shaped pattern that approximately coincides with the major surfacewater drainage divides. The arms of the Y radiate from the general area of the Brookhaven National Laboratory through the centers of the north and the south forks. Ground water moves northward toward Long Island Sound and southward toward Great South Bay and the ocean; lesser amounts in the Brookhaven National Laboratory and Riverhead areas percolate eastward toward Peconic Bay. Groundwater drainage from the north-fork area moves northward to Long Island Sound and southward into Peconic and Gardiners Bays and Block Island Sound; in the southfork area, ground water moves northward to Peconic and Gardiners Bays and Block Island Sound and southward into Moriches and Shinnecock Bays and the ocean.

Movement of water in the aquifers of Suffolk County is more rapid horizontally than vertically. This partly reflects the low vertical hydraulic conductivity of the near-horizontal interbedded clay and silt lenses and beds. The estimated average rates of horizontal movement in the upper glacial, the Magothy, and the Lloyd aquifers are 0.5, 0.2, and 0.1 foot per day, respectively, in areas remote from pumping wells, and hundreds of feet per day near the screens of pumping wells (Soren, 1971a, p. 16). Vertical rates of movement are

described in the following section.

HYDRAULIC INTERCONNECTION OF AQUIFERS

The aquifers of Long Island are hydraulically interconnected. Layers of clay and silt within an aquifer, or clayey and silty units between aquifers, confine the ground water; but these units do not completely prevent the vertical movement of water through them.

On the average, the vertical hydraulic conductivity of and rates of vertical flow through the upper glacial aquifer are greater than those of all other hydrogeologic units in Suffolk County. The vertical movement of water through the Magothy aquifer is impeded by intercalated lenses and beds of clay and silt; but, locally, vertical movement through the aquifer is facilitated by the lateral discontinuity of clay and silt beds. Vertical movement of water through clay and silt beds of the Magothy aquifer is very slow. The Raritan clay effectively confines water in the underlying Lloyd aquifer because the Raritan clay is thick, is areally persistent, and is of very low hydraulic conductivity. Movement through the

bedrock is negligible.

The contact between the upper glacial and the Magothy aquifers is not a smooth plane. Glacial deposits fill buried valleys that were cut in the Magothy aquifer, and these deposits are in lateral contact with truncated beds in the Magothy aquifer. In the buried valleys, water enters the Magothy aquifer at depths of hundreds of feet directly from the upper glacial aquifer. Near Huntington, a buried valley cuts completely through the Magothy aquifer and extends into the Raritan clay; in the Ronkonkoma basin, the Magothy aquifer seems to be nearly completely cut through; and along the north shore, where locally all the pre-Pleistocene deposits were completely eroded, the upper glacial aquifer is in contact with the full thickness of the Magothy aquifer. (See map showing altitude of top of

p. 144-150), and Soren (1971b, p. A31-A34).

DETERGENT CONSTITUENTS (MBAS)

More than 95 percent of the ground water used for domestic supply in Suffolk County is returned to the ground through cesspools, septic tanks, and similar structures. As a result, the ground water and the ground-water-fed streams locally contain measurable amounts of certain substances of sewage origin, including foaming agents derived from synthetic detergents, commonly referred to as MBAS or methylene blue active substance. MBAS has been noted mainly in water from the upper glacial aquifer (Perlmutter and Guerrera, 1970, p. B14) and in the streams (Cohen, Vaupel, and McClymonds, 1971). Apparently, little or no MBAS had been found in water in the Magothy and the Lloyd aquifers. Where MBAS has been found in the water, the content is commonly less than 0.5 mg/l, the maximum limit in public-supply water recommended by the U.S. Public Health Service (1962, p. 24). However, locally, as much as 5 mg/l has been found in the ground water; and in some areas the MBAS content of the water seems to be increasing. As a result, the Suffolk County Legislature recently (1971) passed a law banning the sale of certain detergents in the county. In addition, plans have been developed for the construction of widespread sanitary-sewer systems that will discharge treated waste water into the sea.

NITRATE

The amount of nitrate in the ground water of Suffolk County is of concern of water managers and health officials. According to the U.S. Public Health Service (1962, p. 7) more than 45 mg/l nitrate (10 mg/l NO3-N) in water supplies may be harmful, especially to infants. Perlmutter and Koch (1972, p. B230) estimated that the average natural background level of nitrate in ground water of Nassau and Suffolk Counties was less than 1 mg/l (less than 0.2 mg/l NO₃-N).

Numerous wells in Kings County (G.E. Kimmel, written commun., August 1971), Queens County (Soren, 1971b, p. A30-A31), Nassau County (Perlmutter and Koch, 1972), and Suffolk County (Harr, 1971) yield water containing more than 0.2 mg/l NO₃-N. Moreover, at least 50 wells on Long Island yield water containing more than 10 mg/l

The amount of water having more than 0.2 mg/l NO₃-N, its rate of increase, and the depth at which it is found seem to increase westward on Long Island as a whole, as well as in Suffolk County. These relations probably largely reflect the westward increase in population density, the westward increase in the age of the communities, and the associated degree of contamination of the ground water related to man's activities.

In Suffolk County, the two major sources of nitrate nitrogen in the ground water are (1) disposal of waste water into the ground and (2) agricultural activities, especially those involving the use of fertilizers. A planned countywide sanitary-sewer system is intended to reduce sewage as a source of nitrate nitrogen in the ground water of Suffolk County.

GROUND-WATER PUMPAGE

Pumpage from Suffolk County's aquifers increased from about 40 mgd in 1950 to about 155 mgd in 1970, to supply a population that has been increasing rapidly since the end of World War II. The greatest increases in population and ground-water pumpage have been in the western part of the county. Before about 1960, wells tapping the upper glacial aquifer supplied nearly all the water used in Suffolk County. Since then, pumpage from the Magothy aquifer has increased and in 1970, the wells tapping the Magothy aquifer supplied about one-third the water used. (See map showing areal distribution of major pumpage by aquifer 1970.)

CHANGES OF GROUND WATER IN STORAGE

An area of about 140 square miles in west-central Suffoll County is underlain by about 4.5 trillion gallons of fresl water (Soren, 1971a, p. 20). By extrapolation, the total fresl ground water beneath all the county is probably 4 to 5 time this volume.

Withdrawals of ground water have caused the water table in some parts of the county to decline as much as 25 fee 1000 /--- chowing net change

These differences do not seriously alter their usefulness and behavior.

Raynham soils are associated with Scio and Walpole soils. They are similar to Scio soils in texture, but they have a higher seasonal water table and are more poorly drained, as is indicated by the grayer color in the solum. Also, Raynham soils lack the till substratum of some of the Scio soils, and they are thicker over sand and gravel than the sandy sub-stratum phase of Scio soils. The B horizon of Raynham soils contains more silt and very fine sand than that of Walpole soils. Although Raynham soils are not associated with Wallington soils, the two are similar, but Raynham soils lack the fragipan and the compact till substratum of Wallington soils.

Raynham loam (Ro).—This is the only Raynham soil napped in the county. This nearly level soil is in lowlying areas beside marshes and creeks. In many places it forms a transition between poorly drained areas and etter drained areas on uplands. It is on outwash plains und moraines. Areas generally are small and irregular.

Included with this soil in mapping are wet spots of Berryland soils and a very poorly drained silt loam soil. Also included are soils that have a water table at a simiar depth as Raynham soils, but they lack the gray color of Raynham soils, have a slightly coarser subsoil, and have sand and gravel below a depth of 30 inches.

The hazard of erosion is slight on this Raynham soil. If this soil is used for farming, artificial drainage is

needed.

This soil is not well suited to crops commonly grown n the county unless it is artificially drained. Because of ts position on the landscape, it is difficult to locate adequate drainage outlets. Near Southhampton, small areas of this soil were formerly cleared and used for crops, but nost of these areas are idle and are in brush. Most of he other areas of this soil are wooded. This soil is better suited to woodland and to recreational areas than to other uses. In places, areas of this soil have been filled and used as homesites. As demand for building lots ncreases, more areas will be filled for use as building sites. Capability unit IIIw-1; woodland suitability group 4w1.

Recharge Basin

Recharge basin (Rc) is made up of basins that vary in ize or of dugouts that have been dug into a porous sand and gravel substratum. These basins provide for the disposal of surface water by acting as catchments and by allowing the water to infiltrate the sand and gravel and echarge the ground water supply. Recharge basins are used to catch runoff from areas such as highways (fig. 13), nousing developments, or parking lots.

Small basins less than 2 acres in size are indicated on he detailed map by a spot symbol, and basins larger han 2 acres are delineated and identified by the symbol Rc. Capability unit not assigned; woodland suitability

group not assigned.

Riverhead Series

The Riverhead series consists of deep, well-drained, noderately coarse textured soils that formed in a mantle f sandy loam or fine sandy loam over thick layers of coarse sand and gravel. These soils occur throughout the county in rolling to steep areas on moraines and in level o gently sloping areas on outwash plains. These soils

range from nearly level to steep; however, they generally are nearly level to gently sloping. Native vegetation consists of black oak, white oak, red oak, and scrub oak.

In a representative profile the surface layer is brown to dark brown sandy loam about 12 inches thick. The upper part of the subsoil, to a depth of about 27 inches, is strong-brown, friable sandy loam. The lower part of the subsoil is yellowish-brown, very friable loamy sand to a depth of about 32 inches. Below is yellowish-brown, friable gravelly loamy sand to a depth of about 35 inches. The substratum is very pale brown and brown loose sand

and gravel or sand to a depth of 65 inches.

Riverhead soils have moderate to high available moisture capacity. Internal drainage is good. Permeability is moderately rapid in the surface layer and in the subsoil and very rapid in the substratum. Natural fertility is low. Reaction is strongly acid to very strongly acid throughout. The response of crops to lime and fertilizer is good. The root zone is mainly in the upper 25 to 35 inches. In many places where these soils have been farmed, a plowpan is in the lower part of the surface layer and in the upper part of the subsoil.

Representative profile of Riverhead sandy loam, 0 to 3 percent slopes, 0.9 mile south of State Route 25, 0.3 mile north of junction of County Road 21 and Longwood Road in Brookhaven, "Camp Wilderness, Boy Scouts of

America":

Ap-0 to 12 inches, brown to dark-brown (10YR 4/8) sandy loam; weak, fine, granular structure; friable; many fine roots in upper part; moderate to strong, platy, firm plowpan in lower 4 inches; strongly acid; abrupt, smooth boundary.

B2-12 to 27 inches, strong-brown (7.5YR 5/6) sandy loam; very weak, medium, subangular blocky structure that parts to weak, fine granular; friable; a few fine roots; many fine pores; less than 5 percent gravel;

strongly acid; clear, wavy boundary.

B81—27 to 82 inches, yellowish-brown (10YR 5/4) loamy sand; very weak, fine, granular structure; very friable; a few fine roots; 10 percent gravel; strongly acid; abrupt, smooth boundary.

32 to 35 inches, yellowish-brown (10YR 5/4) gravelly loamy sand; massive; friable; a few fine roots; 80 percent gravel; strongly acid; abrupt, smooth bound-

-85 to 40 inches, brown to dark-brown (7.5YR 4/4) sand; single grain; loose; 10 percent fine gravel; strongly acid; abrupt, smooth boundary.

IIIC2—40 to 65 inches, very pale brown (10YR 7/4) coarse and medium sand that contains 2-inch layers of gravel, 8 to 24 inches apart; single grain; loose; strongly acid.

The solum ranges from 22 to 86 inches in thickness. It corresponds in depth to the upper boundary of the underlying coarse sand and gravel. The content of gravel or stones ranges from 2 to 15 percent, by volume, in the upper part of the solum and from 5 to 85 percent in the substratum. The content of gravel in the solum is higher in soils that have a thin solum. In places the solum is more than 80 inches thick, and streaks and pockets of olive-gray colors are present immediately above the sand or sand and gravel substratum. Reaction ranges from strongly acid to very strongly acid throughout.

In places these soils have an Ap horizon that ranges from very dark grayish brown (10YR 3/2) to brown or dark brown (10YR 4/3). The Al horizon ranges from black (10YR

2/1) to dark grayish brown (10YR 4/2).

The B horizon ranges from brown or dark brown (7.5YR 4/4) to light olive brown (2.5Y 5/6). Texture is dominantly sandy loam, but it ranges to fine sandy loam. Structure is massive, or very weak subangular blocky. Consistence ranges from friable to very friable.

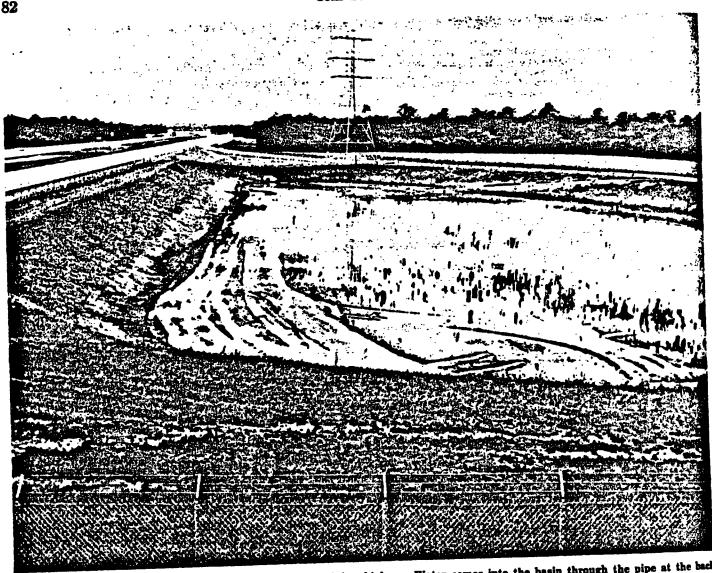


Figure 13.—Recharge basin that catches runoff from adjoining highway. Water comes into the basin through the pipe at the back

Many Riverhead soils have a thin loamy sand horizon in the lower part of the B horizon. This horizon has the same color range as the upper part of the B horizon, and it is as much as 35 percent coarse fragments.

The C horizon ranges from brown or dark brown (7.5YR 4/4) to yellow (2.5Y 7/6). Texture is sand or sand and gravel, and it is generally stratified.

Riverhead soils are near Haven, Plymouth, Sudbury, and Walpole soils. Riverhead soils are sandier throughout the solum than Haven soils, and they are less sandy throughout the solum than Plymouth soils. Sudbury soils are moderately well drained, and Walpole solls are somewhat poorly drained or poorly drained.

Riverhead sandy loam, 0 to 3 percent slopes (RdA).— This soil has the profile described as representative of the series. It generally is on outwash plains, and the areas are large and uniform. Where this soil occurs on outwash plains, it generally has slope characteristics of this landform. Slopes are undulating in places. A few small, irregular areas are on moraines.

Included with this soil in mapping are small areas of Sudbury soils that are less than 1 to 2 acres in size. Also included are areas of soils near Bridgehampton that have a profile similar to that of this soil, except that at a depth of about 30 inches they have layers of gray and strong brown silt loam 1 to 2 feet thick. Also included are areas of Haven and Plymouth soils that have a texture marginal to sandy loam and areas of soils that have a loam or fine sandy loam surface layer and a sandy loam subsoil Areas of Montauk soils on moraines that have a very weak fragipan formed in loose sandy till are included.

The hazard of erosion is slight on this Riverhead soil This soil is limited only by moderate droughtiness in th moderately coarse textured solum. It tends to develop

plowpan if it is intensively farmed. This soil is well suited to all crops commonly grown i the county, and it is used extensively for that purpos Most areas in the western part of the county, howeve are used for housing developments and industrial parks. Capability unit IIs-1; woodland suitability group 301.

Riverhead sandy loam, 3 to 8 percent slopes (RdB).—
This soil is on moraines and outwash plains. It generally is in areas along shallow, intermittent drainageways. Slopes generally are moderately short, but large areas on

moraines are undulating.

The profile of this soil is similar to the one described as representative of the series, though in cultivated areas this soil is likely to be 2 to 3 inches shallower to coarse sand and gravel, and the surface layer is likely to

contain a slightly larger amount of gravel.

Included with this soil in mapping are small areas of Bridgehampton, Haven, and Plymouth soils in a complex pattern. The texture of these soils is marginal to sandy loam. These included soils generally are on large separations. Near Bridgehampton are included areas of Riverhead soils that have gray and strong-brown silt loam layers at a depth of 26 to 30 inches. Also included are narrow strips of Haven loam, thick surface layer, along intermittent drainageways, and soils that have a surface layer of loam or fine sandy loam and a subsoil of sandy loam. Included with this soil on moraines are Montauk soils that have a very weak fragipan that formed in loose, sandy till.

The hazard of erosion is moderate to slight on this Riverhead soil. The main concerns of management are controlling runoff and erosion and providing adequate

moisture.

This soil is well suited to all crops commonly grown in the county, and it is used mainly for this purpose. Most areas in the western part of the county, however, are used for housing developments and as industrial sites. Capability unit IIe-2; woodland suitability group 301.

Riverhead sandy loam, 8 to 15 percent slopes (RdC).—This soil is in narrow bands on outwash plains along the side slopes of deep, intermittent drainageways. Slopes are short. On the Harbor Hill moraine and on the Ronkonkoma moraine east of the Shinnecock Canal, the areas of this soil are larger than in other places in the county and they generally are rolling.

The profile of this soil is similar to the one described as representative of the Riverhead series, but in cultivated areas this soil generally is 3 to 4 inches shallower to coarse sand and gravel, and it is as much as 15 percent

gravel, by volume.

Included with this soil in mapping are eroded and gravelly areas too small to map separately. Also included in a complex pattern with this Riverhead soil are Haven and Plymouth soils that have a texture marginal to sandy loam. These soils generally are in large separations on moraines. Along the bottom of intermittent drainageways, strips of Haven loam, thick surface layer, that are too narrow to map separately are also included. Other inclusions are Montauk soils that have a very weak fragipan that formed in loose sandy till and some areas that have a sand and gravel substratum, 1 to 2 feet thick, underlain by till at a depth of more than 42 inches.

The hazard of erosion is moderately severe on this Riverhead soil. Controlling erosion is the main concern of management. This soil is limited by droughtiness and by the difficulty of applying irrigation water. The response of crops to applications of lime and fertilizer is

good. Slope limits the use of large farm machines.

This soil is suited to crops commonly grown in the county; however, the hazard of erosion reduces its usefulness for farming. Most areas of this soil are in trees or brush. A few small tracts were formerly cleared and farmed along with adjoining less sloping soils, but many of these areas are now in grass or brush because the use of heavy farm equipment on these areas is impracticable. Many of the larger areas of this soil are used for housing developments where large lots are needed. These rolling areas are in the western part of the county. Capability unit IIIe-1; woodland suitability group 301.

Riverhead very stony sandy loam, 3 to 8 percent slopes (ReB).—This gently sloping Riverhead soil is on Fishers Island. It is on morainic deposits, and the areas are complex and undulating, characteristic of moraines. Areas of this soil are small, and they make up a very

small part of the total acreage of the county.

The profile of this soil is similar to the one described as representative of the series, except that it has many stones larger than 10 inches in diameter scattered over the surface. In addition, this soil contains more fine sand than the soil described as representative of the series.

Included with this soil in mapping are small areas that have no stones or that have too few stones to be classified stony. A very small acreage of Plymouth soils

that are very stony are included.

The hazard of erosion is moderate to slight on this Riverhead soil. The stones on the surface of this soil

limit its use to woodland or pasture.

This soil is pooorly suited to farming. Some areas are cleared, but they are not farmed. These areas have been left idle, and most of them are reverting to woodland. Areas on Fishers Island are mainly used as sites for large estates. This soil has little value for uses other than woodland or hunting areas. Capability unit VIs-1; woodland suitability group 301.

Riverhead very stony sandy loam, 8 to 15 percent slopes (ReC).—This soil is on Fishers Island. It is on morainic deposits. Many closed depressions or kettle holes are on the surface. The areas of this soil are small

to medium.

The profile of this soil is similar to the one described as representative of the series, except that many stones larger than 10 inches in diameter are scattered over the surface or are imbedded in the soil. Also, this soil contains more fine sand than the soil described as representative of the series.

Included with this soil in mapping are small areas that have no stones or that have too few stones to be classified stony. In addition, areas of Plymouth soils, 8 to 15 percent slopes, that are very stony make up about

10 percent of this unit.

The hazard of erosion is moderate on this Riverhead soil. The stones on the surface of this soil limit its use to

woodland or to pasture.

This soil is poorly suited to crops. Some areas are cleared, but most areas have been allowed to revert to brush or trees. This soil has little value for uses other than woodland and hunting areas. Capability unit VIs-1; woodland suitability group 301.

Riverhead and Haven soils, graded, 0 to 8 percent slopes (RhB).—This mapping unit consists of areas of Riverhead sandy loam, of Haven loam, or of both. The

areas have been altered by grading operations for housing developments, shopping centers, industrial parks, and similar nonfarm uses. In the western part of the county, the areas of this mapping unit are very large, and large acreages are used as sites for housing develop-

ments (fig. 14).

Originally, the Riverhead and Haven soils in this unit each had the profile described as representative of its respective series, but grading operations have left a man-made profile that is significantly different. In places the surface layer and the upper part of the subsoil have been removed, but in other places they have been left undisturbed. Undisturbed areas have been filled with soil material cut from adjoining high spots, but the Riverhead and Haven soils can be identified because sufficient diagnostic characteristics of the respective series remain. In some areas Riverhead and Haven soils that have not been graded make up as much as 25 percent of this unit. In places another 10 to 15 percent has been so deeply cut or filled that the upper 40 inches is sandy and contains no diagnostic horizons of the respective series.

Included with these soils in mapping are areas in which most or all diagnostic horizons have been destroyed, but these areas contain at least 12 inches of loam, silt loam, or sandy loam in the upper 40 inches. In places this 12 inches of material is in one layer, and in others it is in several thinner layers. Also included are small areas of Cut and fill land and Montauk soils,

graded.

These soils are suited to most grasses and shrubs generally used for lawns and landscaping. In places very deeply cut or filled areas are slightly droughty and need supplemental irrigation. The response of plants to applications of lime and fertilizer is good. The practice generally is to build on the soils immediately after grading; therefore, the number of existing buildings on areas of the soils in this unit is the main factor in determining their future uses. Capability unit not assigned; woodland suitability group not assigned.

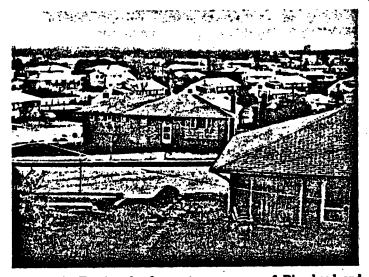


Figure 14.—Housing development on an area of Riverhead and Haven soils, graded, 0 to 8 percent slopes. Density and pattern are typical of other developments on graded soils and on Cut and fill land, gently sloping.

Riverhead and Haven soils, graded, 8 to 15 percent slopes (RhC).—This mapping unit consists of areas of Riverhead sandy loam, of Haven loam, or of both. These soils have been altered by grading operations for housing developments, shopping centers, industrial parks, and similar nonfarm uses. Most areas of this unit are small, and are along moderate slopes. These areas are within large areas of level Riverhead and Haven soils that are being shaped.

Originally, the Riverhead and Haven soils in this unit each had the profile described as representative of its respective series, but grading operations have left a man-made profile that is significantly different. The surface layer and most of the subsoil have been removed by cutting or these layers have been buried by fill material, but sufficient diagnostic characteristics remain, so that the Riverhead and Haven soils can be identified according to their respective series. Because of slope, more extensive cuts and fills have been made on this unit than on Riverhead and Haven soils, graded, 0 to 8 percent slopes. In places areas of Riverhead and Haven soils that have not been graded make up 25 to 30 percent of this unit. In other places 15 to 20 percent has been so deeply cut or filled that no diagnostic horizons of the respective series remain in the upper 40 inches of the soil material.

Included with these soils in mapping are soils that contain at least 12 inches of loam, silt loam, or sandy loam in the upper 40 inches, but they do not have horizons characteristic of Riverhead and Haven soils. In places this 12 inches of material is in one layer, but in other places it is in several thinner layers. Also included

are small areas of Cut and fill land.

These soils are suited to most grasses and shrubs generally used for lawns and landscaping. If they are used for this purpose, however, a cover of plants is needed to protect sloping areas from erosion. Areas in which there are deep cuts and fill generally are droughty and low in natural fertility; therefore, supplemental irrigation and heavy applications of lime and fertilizer are needed. Generally, the number of buildings on a site determines the future use of these soils. Capability unit not assigned;

woodland suitability group not assigned.

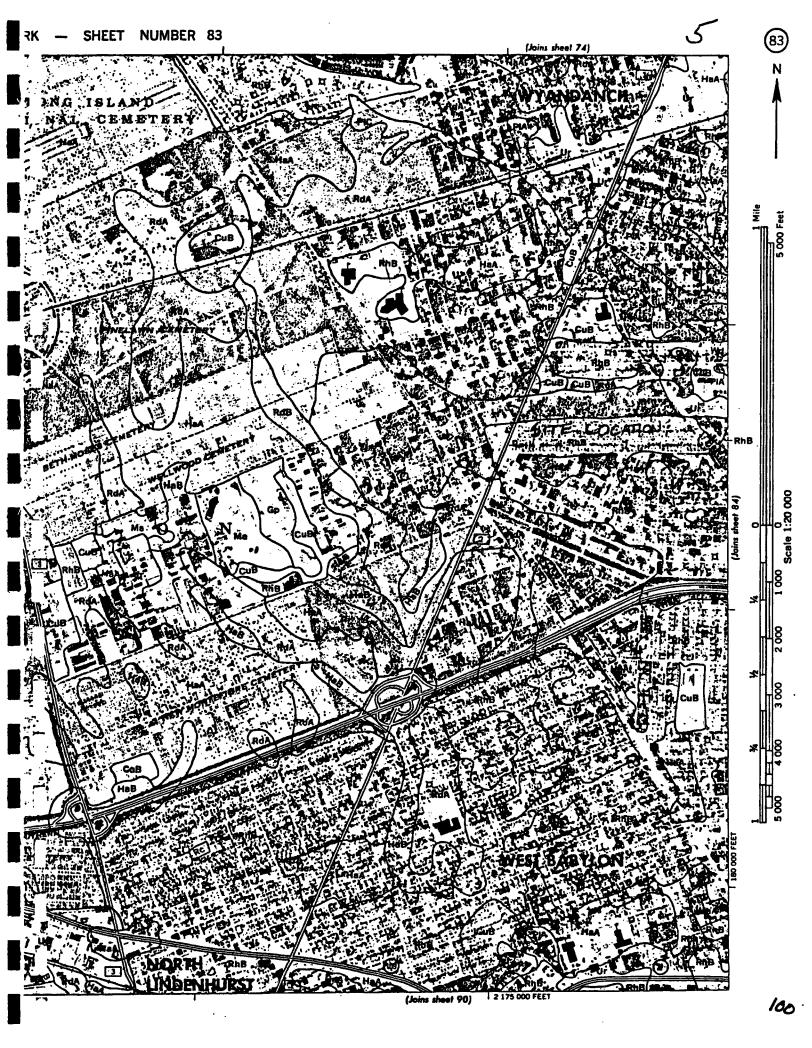
Riverhead and Plymouth very bouldery soils, 15 to 35 percent slopes (RpE).—These very bouldery soils are only on Fishers Island. The areas consist of Riverhead soils, of Plymouth soils, or of a combination of the two. The surface layer of these soils is sandy loam or loamy sand. These soils have either short, steep, single slopes or complex slopes that have numerous depressions or kettle

holes. Most areas are medium to large in size.

Riverhead and Plymouth soils both have a profile similar to that described as representative of their respective series, except that many large boulders several feet in diameter are scattered over the surface and imbedded in the

soil.

Included with these soils in mapping are small areas that are less bouldery than the areas of the soils in this unit. Also included are small areas of very bouldery soils that have slopes of less than 15 percent. These areas generally are in large areas where the topography is complex. Narrow bands of extremely bouldery soils are included along short steep breaks.



1795 Engl of LAW

Nov. 12, 1975

Gaess Environmental Services Corp. 253 River Drive Passaic, N.J. 07055

Att'n: Ron Kiley

Gentlemen:

On Nov. 7, 1975 I conducted an inspection at Jameco Industries, Inc. on Wyandanch Ave., Wyandanch, Suffolk County, N.Y. They employ your services for the removal of metal sludges.

At the time of my inspection, I observed one of your trucks (Lic. # XHU-52U-N.J. Commercial) pumping out their sludge holding tank. During this process the connection between the pipe and the truck was observed to be leaking. I could not determine the cause of this leak but it caused the discharge of 30 - 50 gallons of sludge onto the surface of the ground. With subsequent rains and other forms of precipitation this material will enter the groundwaters and become a pollutant.

Your firm is approved by this office as an industrial waste scavenger. This means that not only should you dispose of the industrial waste suitably but that you and your employees are commizent of the toxicity of the materials you handle and, therefore, exercise the necessary caution to prevent occurrences such as the one described above.

Please be sure that this problem does not repeat itself with this or any of your other trucks or crews. You should be aware that a recurrence of this type will result in the subsequent revocation of all approvals for scavenging wastes authorized by this Department.

If you have any questions please do not hesitate to contact this office.

Very truly yours,

Syc

Roy Gilbert Water Pollution Control Section RG/rt

NUS Det de

June 15, 1979

Mr. Israel Gajer Jameco Industrios, Inc. 243 Wyandanch Ave. Wyandanch, N.Y. 11798

Doar Mr. Gajer:

In previous discussions with you, I indicated that your State Pollutant Discharge Elimination System (SPDES) permit does not expire until 1980. However, the permit was issued for three years and has already expired.

Enclosed find new application forms, which you must complete for renewal of your permit, and return to this office.

Also, please enclose a check made out for the proper amount to New York State Department of Environmental Conservation.

In other matters, an inspection of your plant on Hay 31, 1979 revealed several violations, which must be corrected:

The drum storage area is inadequate. You have uncovered sludge drums and no protection against leakage or spillage. This area must be cleaned up as soon as possible.

Thirty of your cesspools were overflowing with green colored waste water, which indicates that your treatment system is not operating.

The northeast side of the property shows puddles originating from boiler blowdown. This material must be held in drums or discharged properly in outfall \$006 as indicated in your permit.

A chrome plating solution was improperly stored outside the building. There were approximately 1,000 gallons of this solution, which could easily spill onto the ground. This must be removed

Mr. Israel Gajer Jameco Industries, Inc.

- 2 -

June 15, 1979

from the site, if not being used.

A reinspection will take place within the next two weeks to determine your compliance in these matters.

We would also like to receive the SPDES applications by the end of this month.

Thank you very much for your kind attention. If you have any questions please do not hesitate to contact this office.

Very truly yours,

Stephen A. Costa, P.E.
Sr. San. Engineer
Industrial Waste and Hazardous
Materials Control Section
BAC/rt
Encl.
cc: Donnelly Engineering
425 New York Ave., Huntington, N.Y. 11743

Ny Sup day

DEPARTMENT OF HEALTH SERVICES

INTEROFFICE MEMORANDUM

To: For the Record

Date: January 10, 1979

From: Louis Copertino

Subject: Jameco Industries, Inc.

248 Wyandanch Avenue, Wyandanch

On January 9, 1979 an inspection was made at the above location. It was noted that the storage area for industrial waste located just north of the open sumps contains some drums that are improperly stored. These drums are not sealed properly and one drum of brite dip sludge was on its side.

Mr. Henry Farell was contacted and was informed of the potential hazards regarding this situation. He was told that cleanup of this area would have to be implemented immediately, replacing any contaminated soil with clean fill and disposing of this soil to an approved industrial waste scavenger.

A reinspection will be made by the writer in approximately 10 days.

LC:DB M

MISTERT WALL

INTER-OFFICE MEMORANDUM

DEPARTMENT OF HEALTH SERVICES

Joseph H. Baier, P.E. TO:

Richard Markel, P.E. FROM:

July 5, 1979 DATE:

Investigating Origin of Organic Contamination at 94 Ulster SUBJ:

Avenue in Wyandanch

On 7/5/79, I received a call from Roy Gilbert requesting our assistance in determining the origin of Organic Contamination found at Mr. Pctty's house, 94 Ulster Avenue.

Preliminary analyses indicate 100,000 ppb 1,1,1 Trichloroethane and 16,000 ppb Tetrachloroethylene in Mr. Petty's tap water.

Groundwater flow in this area is in a southeasterly direction towards Belmont Lake. Depth to water is approximately 12 feet. suspected origin of the Organic Contamination is Jameco Manufacturing Co. located on Wyandanch Avenue just upstream of Mr. Petty's house on Ulster Avenue.

It is proposed that we drill a series of wells downgradient of the suspected origin of this contamination to determine its source. The enforcement section will get permission and markouts so we can commence drilling as soon as possible.

In addition, we have well S 56351 which is located on the corner of Wright Street and Ulster Avenue which should be sampled for the above indicated organic contaminants. This well was installed as part of the Carll's River Study and is screened approximately 15 feet below the top of the water table.

Please advise if the above proposed course of action meets your Rech - Proceed with permits approval.

RM/lfs /\n\

Jim Pim cc:

Roy Gilbert

Dennis Moran

John Soderberg

Sept. 24. 1979

g. Olsen

Jameco Industries, Inc. 248 Wyandanch Ave. Wyandanch

Section 1

On 9/20/79, during an inspection of a company across from Jameco Industries, I noted a large plume of yellow gases being emitted from the roof of Jameco. This emission lasted approx. 10 min. before ceasing. The gas emitted did not disperse but remained fairly persistent. The gas also appeared to be heavier than air as it sank to ground level where I encountered it. It burned the eyes and internal nucous membranes when inhaled.

About 40 min. later, after concluding my inspection at an unrelated company, I again noted an emission of the same type as previously observed. This latter emission lasted approx. 5 min. Local business representatives have stated that this emission is a fairly frequent practice.

Since I am not an air pollution specialist, I am turning this matter over to you for your follow-up, if you feel it is warranted.

R. Olsen PO/rt NAME:

Jameco

LOCATION:

Town of Babylon, Wyandanch, Suffolk County,

Long Island, New York.

DEFENDANTS:

Jameco Industries; consultant: AKRF

Engineering, Arnie Flemming

LAWYERS:

Nancy Stearns, Bob Osar

HISTORICAL:

Case referred to us by Suffolk County Department of Health Services (SCDOHS).

SITE

DESCRIPTION:

Jameco, one of the largest family owned commercial plating companies in the nation, produces chrome and nickel plated plumbing fixtures. The facility consists of a large process building, offices, a storage warehouse, and yard space. The on-site waste treatment system includes components to adjust pH, precip settling tanks, and an industrial cesspool (leachfield). In the past this system has not been able to consistently achieve compliance with the facilities State Pollution Discharge Elimination System (SPDES) permit. Prior to 1975, the storage yard contained two, perhaps three sludge drying beds. According to the company, these were properly abandoned and the sludge taken by a licensed hauler.

The site is located less than a 1 mile down gradient from a deep public water supply well which, to date, has not been impacted by activities at Jameco. residences are located along plants southern boundary, and some are on private water supply.

The geology of the area is typical of Long '-Island. The drillers log for the 669 feet deep public supply well (included in the case file) indicates coarse sand and gravel to a depth of 87 feet, underlain by alternate clay and sand layers. Groundwater, which is encountered at a depth of 9 to 10 feet, generally flows south-southeast towards Belmont Lake.

CONTAMINATION: SCDOHS compiled numerous analyses of plant wastewater that exceeded SPDES limits, and collected groundwater samples from two

temporary wells that demonstrated down gradient nickel contamination at concentrations of up to 32 ppm. A Department of Law/Department of Health borehole investigation (utilizing hollow stem auger) in the area of the old sludge beds encountered significant pockets of concentrated sludge containing greater than 20,000 ppm of nickel, chrome, and other metals.

CURRENT STATUS:

A complaint has been filed, and we are in the process of trying to negotiate a settlement with the company to do the following:

- a) investigate and map any potential plume.
- b) upgrade their waste treatment system to to comply with SPDES limits.
- c) clean or demonstrate the cleanliness of the sludge bed area.
- d) test tap water for those residences on private supply.

Jameco has already hired consultants to perform a number of tasks for them. The company is in the process of installing a new \$1,000,000 waste treatment system, and has performed a field study that includes soil and groundwater sampling. Additionally, Jameco has filed with NYSDEC for a SPDES permit renewal, using the opportunity to contest the SCDOHS decision not to grant Jameco a reduction in process water usage.

Trive 12

INTER-OFFICE MEMORANDUM

DEPARTMENT OF HEALTH SERVICES

TO: Jim Pim, P.E.

FROM: Richard Markel, P.E.

DATE: February 15, 1980

SUBJ: Investigating Origin of Organic Contamination at 94

Ulster Avenue in Wyandanch

In July of 1979 a preliminary analysis of tap water obtained from 94 Ulster Avenue in Wyandanch indicated very high trace organic contamination. Trichloroethane was found at a concentration of 100,000 ppb and tetrachloroethylene at 16,000 ppb. In response to this contamination, an investigative drilling program was begun. A total of six wells were drilled in the vicinity of the Ulster Avenue contamination and samples were obtained at various levels in the aquifer. The locations of the wells were chosen to conform with a southeasterly groundwater direction, to determine a possible upstream source of the contamination. The results of this investigation are summarized in Table I and the attached map of the area.

The overall investigation so far indicates that the highest contamination is occurring in the vicinity of house #94 on Ulster Avenue. From the work completed to date it does not appear that Jameco is the origin of this contamination. The extremely high concentrations of 1,1,1 trichloroethane and tetrachloroethylene found in Mr. Petty's drinking water indicates that perhaps this contamination was caused by the use of a cesspool solvent that somehow got directly into his well. However, the investigation also shows that there is widespread trace organic contamination in the area that exceeds New York State guidelines for drinking water. Because of the relatively lower concentrations of contaminants found adjacent to house #94 on Ulster Avenue further drilling is not recommended at this time. It appears that the source of the contamination is not a dumping area or a deliberate or accidental spill.

RM/lfs Attachments

cc'J. Baier

S. Costa

.1 1

... CLIFT FOR YOUR \$20

Facility JD No.

MY - Sou - Jac

0 /1

ıS

Effective Date (FDF)

: May 1, 1980

. Crandall, BP&C Adamczyk, BIP

Expiration Tate (ExDP)

May 1, 1985

U.e M. D'Abramo -

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STATE POLLUTANT DISCHARGE FLIMINATION SYSTEM (SPEES)

um of Eabylon Env. Control

DISCHARGE PEPKIT

Special Conditions (Fart I)

This SFDES permit is issued in compliance with Title 8 of Article 17 the Environmental Conservation Law of New York State and in compliance with the clean Water Act, as amended, (33 U.S.C. \$1251 et. ceq.) (hereinafter referred to as MECO INDUSTRIES

-3 WYANDANCH AVENUE MANDANCH, NEW YORK 11798

N: MR. ISRAEL GAJER

in authorized to discharge from the facility described below:

46 Wyandanch Avenue hylon (T), Suffolk County ndanch, New York

o receiving waters known as:

oundwatera

ccordance with the effluent limitations, monitoring requirements and other conditions forth in this permit.

This permit and the authorization to discharge shall expire on midnight te expiration date shown above and the permittee shall not discharge after the piration date unless this permit has been reneved, or written authorization is given the Department. In order to receive authorization to discharge beyond the expiration the permittee shall submit such information, forms, and fees as are required by l'epartment of Environmental Conservation no later than 190 days prior to the tration date.

Authority of George K. Hansen, P.E., Chief, P.D.E.S. Permit Section Designated Representative of Commissioner of the Pepartment of Fnvironmental Conservation

APR 1 5 1980

Cate

Genrye K. Hansen

		1	Teca: (ly in Fee	1.1.	008 1540			
			Iffect	re Date (LDY)	8	· EDM /	/3		
			Expire	fon Aste (End	P) : Ma:	y 1, 1985			
l				•	• .				
-		STATE POLLUTANT DIS		LATION SYSTEM					
		Epo	cial Condition (Fart I)	738					
/ *	of the Environme	This EFDES permit is ntel Conservation La	w of Ben Tork	State and in	compliance	with the	,		
1	Permittee Kama:	Jameco Industr	ies						
=	Fermittee Etrect	248 Wyandanch	Ave.						
i	Fermittee City:	Wyandanch:		State: NY	Zíp	Code: 117	798		
Ļ	is sutborized to discharge from the facility described below:								
7 200	Facility Esse:	Jameco Industr	ies						
* 	Tacility Location	c(C,T,V): Babylon	n (T)	County:	Suffolk				
	Facility Mailing	Address (Street):	248 Wyandanch	Ave.					
	Facility Mailing	Address (City):	lyandanch	State: NY	Zip	Code: 1179)8		
	into receiving w	aters known as:	Groundwater						
gi.									
	•	•	· .			-			
ķ		th the effluent limi	tations, moni	toring require	ements and	other condi	tions		
	set forth in thi	•							
	of the expiration	This permit and the n date shown above a	nd the permit	tee shall not	discharge	after the	_		
F	authorized to dis	unless this permit h scharge beyond the e ribed by Sections 17 1, 752, and 755 of t	xpiration dat -0803 and 17-	e, the permit	tee shall s nvironments	apply for pe			
	LEV ENG PRITE 52.	1, 732, EDG 733 01 E	ne neberthent	B. Later und	LeEntrerous	5 •			
p. e	By Authority of _	Declonete	d Representat	ive of Commis	signer of t	he			
				ronmental Con					
	•	•		•					
	Date	B .	•	Sig	nature				
-)-2(6/80)Pg.1								

•

Fart I
Page 2 of 5
Facility ID Ro.:

NY 008 1540

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning EDP and lasting until May 1, 1985 the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

				MONTEOLINE MECHEN	
Outfall Number &	Discharge L	imitations '		Measurement	Sample
Effluent Parameter	Daily Avg.	Deily Max.	Units	Frequency	Type

001 No monitoring required, Sanitary wastes only, no industrial wastes shall be allowed.

002 No monitoring required. Sanitary wastes only, no industrial wastes shall be allowed.

003* Flow	25,000	gpd	Continuous	Recorded
Chromium-Hexavalent	.1	mg/l	Twice Monthly	Composite
Chromium-Total	1	H _	"	u .
Copper-Total	1	##	. 11	11
Cyanide-Total	. 4		11	11
Iron-Total	.6	11	11	н .
Lead-Total	. 05	11	11	II .
Nickel-Total	2	11	II .	H
Zinc-Total	5		H	11 .
MBAS	1.5	tt	H	11
COD	150	**	tt	n
pH (Range) 6.5 - 8.5		SU	u .	Grab

NOTE: Samples shall be collected from the treated industrial waste <u>prior</u> to admixture with cooling water. © 004

The permit application must list all the corrosion/scale inhibitors or biocidaltype compounds used by the permittee. If use of new boiler/cooling water additives is intended, application must be made prior to use.

^{*}Based on a single seven (7) hour daily shift.

^{*}Treated process rinse water before combination with 004

Fart I Tage 3 of5 Facility ID No.:

NY 008 1540

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS continued

During the period beginning EDP and lasting until 5 Years from EDP the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

	•			Monitoring Regmts.	
Outfall Rumber & Effluent Parameter	Discharge I Daily Avg.	Daily Max.	Units	Messurement Frequency	Semple Type
004 Flow Fluoride Total Dissolved Solids	∕70,000 ¥	NA 3 1000	<i>gpd</i> mg/1 "	No monitoring	required Composite
Total Nitrogen (As N)		10	01	11	11

The permit application must list all the corrosion/scale inhibitors or biocidal-type compounds used by the permittee. If use of new boiler/cooling water additives is intended, application must be made prior to use.

^{*} Includes 45,000 gpd non-contact cooling water and 25,000 gpd of process water from 003

Part I Page 4 of 5
Pacility ID No.: NY 008 1540

Definition of Daily Average and Daily Maximum

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

Monitoring Locations

Permittee shall take samples and measurements to meet the monitoring requirements at the location(s) indicated below: (Show locations of outfalls with sketch or flow diagram as appropriate).

thering

Λ

WYANDANCH AVE

OGT

OGT

ON-CONTACT
WATER

TECHTMENT SAMME

Fige 54 of 5
Facility ID No.: NY 008 1540

. A). The permittee shall also refer to the General Conditions (Part II) of this permit or additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized and reported by submitting a completed and signed Discharge Monitoring Report form once every; months to the Department of Environmental Conservation and other appropriate regulatory agencies at the offices specified below. The first report will be due no later than Thereafter, reports shall be submitted no later than the 28th of the following month(s):

Water Division

New York State Department of Environmental Conservation

50 Wolf Road - Albany, New York 12233

New York State Department of Environmental Conservation Regional Engineer | NYS SUNY, BLdg. 40 Stony Brook, NY 11790

Suffolk Co. Department of Health Services 15 Horseblock Place Farmingville, NY 11738

(Applicable only if checked):

Dr. Richard Baker, Chief - Permits Administration Branch Planning & Management Division USEPA Region II 26 Pederal Plaza New York, New York 12078

- c) If so directed by this permit or by previous request, Monthly Wastewater Treatment Plant Operator's Reports shall be submitted to the DEC Regional Office and county health department or county environmental control agency specified above.
- d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Reports.
- f) Calculations for all limitations which require averaging of measurements shall -utilize an arithmetic mean unless otherwise specified in the permit.
- g) Unless otherwise specified, all information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the most recently completed reporting period.
 - h) Blank Discharge Monitoring Report Forms are available at the above addresses.

91-20-2 (8/81) Page 2

100 2 2 police

APPLICATION FCR WASTF DISPOSAL PERMIT ENGINEERING REPORT PART I

SUBMITTED TO NEW YORK STATE DEPT. OF ENVIRONMENTAL CONTROL

BY

JAMECO INDUSTRIES, INCORPORATED
248 WYANDANCH AVENUE
WYANDANCH, NEW YORK 11798

PREPARED BY
DONNELLY ENGINEERING
10 JEFFERSON AVENUE
ST. JAMES, NEW YORK 11780



AUGUST 1980

CORPORATE	OFFICER	•
	· · · · · · · · · · · · · · · · · · ·	

LAWRENCE A. DONNELLY PE NYS 46645

14

A.2 Identification of Pollutants

The industrial wastewater at Jameco Industries is produced in the metal cleaning and pickling areas and the electroplating Udylite machine. The wastewater produced is essentially from the rinsing operations which follow the various concentrated process tanks. Occasionally some of the concentrated process baths are discharged and held for hauling by an approved scavenger.

The wastewater from this factory contains the following contaminants:

Mitrogen (N)

Chlorides (C1)

Sulfates (SO₄)

Fluoride (F)

Total Dissolved Solids (TDS)

MBAS

COD

pН

A.3 Classification of Receiving Waters

Jameco Industries is located 11,800 feet North of the North 40 42'30" Latitude Line, and 6000 feet East of the West 73 20'00" Longitude Line as shown on the Topographic Map, Figure 1.

The local environment consists of a mixture of industrial and residential areas. The land is level. The property is approximately 50 feet above sea level. The property is situated at 248 Wyandanch Avenue, Wyandanch, New York. Leaching pool disposal of raw sewage is customary in this area. Industrial wastewater is similarlyy disposed of in leaching pools. The receiving groundwaters are classified as GA. A portion of the USGS Topographical Quadrangle Map is presented in Figure 1.

Water for the factory is supplied by a private well and the Suffolk County Water Authority. Projected water consumption shall be 4500 gpd of industrial process water, and 20,000 gpd of non contact cooling water.

A.4 Requirements for Waste Treatment

The domestic wastewater from this factory is from toilets, wash basins and drinking fountains. There are no sources of kitchen waste on the premises. The domestic sewage will pass directly to the sanitary leaching system for wastewater disposal.

The industrial wastewater from this factory is essentially rinse water coming from the final finishing area where the cleaning and electroplating procedures are located. The water treatment design criteria are taken from "Groundwater Classifications, Quality Standards and Effluent Standars and/or Limitations" (Title 6, Official Compilation of Codes, Rules and Pegulations, Part 703, Effective September 1, 1978). This reference lists limits of specific physical and chemical wastewater characteristics before discharge to the groundwater is permissible. The significant wastewater pollutants were identified in Section A.2. The following table gives the permissible concentrations at the time of discharge, as set forth in the existing SPDES Permit effective May 1, 1980.

TABLE 1 - Limitations on Effluent Wastewater Contaminants
Substance

Substance	Concentration (mg/1)
Chromium (Hex)	0.1
Chromium (T)	
• •	1.0
Copper	1.0
Iron	0.6
Nickel	2.0
Zinc	
Total Nitrogen (N)	5.0
Total Dissolved Solids	10.0
MBAS	1000.0
COD	1.5
	150.0
pH:	6.5-8.5

B.2 Description of Factory Wet Processes

Brass and stainless steel components are cleaned and plated at this facility. The cleaning procedure is shown on a process flow schematic on Drawing JAM-04. These two processes would be the source of nitrates, chloride, sulfate, and MBAS type contaminants present in the industrial wastewater. The plating procedures are shown on a process flow schematic on Drawing JAM-03. All parts are plated with nickel and chrome following a cleaning and pickling operation at the beginning of the automatic plating machine. procedures are the source of all heavy metals present in this wastewater as well as nitrate, fluoride and MBAS compounds. The contaminant producing a COD is the sodium bisulfite used in the reducing rinse to convert hexavalent chromium to the trivalent state. A slight excess of this chemical could exert a significant COD in the wastewater and would not be removed by the existing treatment methods.

The following pages list the tanks used in the cleaning and plating processes with the materials present along with the concentration of each item.

HAZARDOUS WASTE DISPOSAL SITES REPORT NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: 2a		•
Site Code: 152006		
Name of Site: Jameco Industries Inc.		Region: 1
County: Suffolk	Town/City_	Wyandanch
Street Address 248 Wyandanch Ave.		
Status of Site Narrative: The site is located in a densely populat unlined lagoons were used for on-site di 1975, the lagoons were abandoned and the hauled off-site. The lagoons were subse system consisting of 48 leaching pools ractivities include metal finishing and no brass and copper plumbing fixtures. Was cleaning processes. The site consists of a warehouse, above ground tanks, an area	sposal of meta sludge was re quently backfi eplaced the sl ickel and chro tes include me f the main pro	plating wastes. In sportedly excavated and led. A waste disposal udge ponds in mid-1975. The electroplating of stals and solvents from seess building with offices,
		· · · · · · · · · · · · · · · · · · ·
	nt Pond(s)	Number of Ponds
Landfill Lagoon(s) [x/	Number of Lagoons
Structure		48 total
Estimated Size 6 Acres		
Hazardous Wastes Disposed? Confirmed	∑ Suspec	ted 🔼
*Type and Quantity of Hazardous Wastes:		
TYPE	QU	ANTITY (Pounds, drums, tons,
Nickel, chromium, lead, copper		galions)
solvents-trichloroethylene		unknown
·		
		

^{*} Use additional sheets if more space is needed.

Name of Current Owner of Site: Jameco Industries, Inc.
Address of Current Owner of Site: 248 Wyandanch Ave, Wyandanch, NY, 11798
Auditor of the first of the fir
Time Period Site Was Used for Hazardous Waste Disposal:
, 19 64 To
Is site . Active Inactive (Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)
Types of Samples: Air Groundwater None Surface Water Soil
Remedial Action: Proposed Under Design Completed Whature of Action: Lagoon area excavated and sludge reportedly hauled off-site 1975.
Status of Legal Action: NYState Dept: of Law State Federal Federal
Complaint, 1981 Permits Issued: Federal Local Government SPDES STORES Solid Waste Mined Land Wetlands Other L
Assessment of Environmental Problems:
On-site soil contamination with metals and solvents observed on numerous occasions from 1974-1984.
Groundwater contamination exists in the immediate site area (samples collected 1976, 1979,1981,1984). On-site production well is reportedly contaminated with volatile organics. Surface overflow of wastewater leaching pools has been reported.
Assessment of Health Problems:
Public water supply wells are within 300 feet of site. Over 100,000 people within 3 miles depend on groundwater as sole source of potable water. Potential for groundwater contamination and resultant public health threat for population using the water.
Persons Completing this Form:
Linda Wade, Woodward-Clyde Consultants
New York State Department of Environmental New York State Department of Health Conservation
Date April 15, 1986

6/3/81 RPM:cl

4. Transfered to

Name

DATE	LCMI	ו :וגוי	ED	11:-21-
/ YAMI	NED	BY_	154	
				37

124

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES PUBLIC HEALTH LABORATORY

Jameso Ind Inc.

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

	Location Wyandacuch Are. Wyandanch.	
1	Point of Collection SPOIS DISH, FOULT B-4	
-	Remarks:	
	Compound pbb Compound	ppb
	Methylene Chloride. Freon 113	212 210 210 214 214 210 210 216
	•	•
)		
	During transport of the sample from collection point to labor the chain of custody must not be broken. The sample should be oby the sample collector or a designated representative who will for the receipt, integrity, and transfer of the sample during sland Signature 1. Collected by Same Shows SCAHS 106633 2. Transfered to David Oby SCOHS 106633 3. Transfered to Manual Oby Scott 106683	delive: (

1 V/ U.W.

C'D 10 0 3 By CA C

DATE D/XAMI	COMP NE D	Ll:11 BY	ED . 	11-51-8	3
-,				27	

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES
PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name	JAMECO ZNO.	FNC,	
Location	NYANDANCH AVE	. whydanch.	
Point of Col	L C	•	on spisot.
Remarks:		,	•
	Compound pbb	. Compor	ınd ppb
Freon 113 Chloroform 1,1,1 Trichl Carbon Tetra 1,1,2 Trichl Bromodichlor 1,1,2 Trichl Chlorodibrom Tetrachloroe Bromoform	10ride	Cis Dichloroethylen Benzene Toluene Chlorobenzene Ethylbenzene Xylene(s) Bromobenzene Chlorotoluene(s) 1,3,5 Trimethylbenz 1,2,4 Trimethylbenz m,p-Dichlorobenzene	<pre></pre>
Octane Styrene n-Nonane p-Ethyltolue n-Decane n-Undecane	ne <u><10</u>	o-Dichlorobenzene p-Diethylbenzene 1,2,4,5 Tetramethyl 1,2,4 Trichlorobenz 1,2,3 Trichlorobenz	benzene <u>210</u> ene <u>410</u>
Marile 182	5-700pp	·	
by the sa	transport of the sample of custody must not be mple collector or a desingle eceipt, integrity, and to SIGNATURE	broken. The sample	should be delivered
l. Collect	ered to DAVIL Uby	ROOM SCAMS	10/20/83 1100 mm
• •	ered to Thancis & amende	ela SCOHS-PHL	10-20-83 2:00 PM
4. Transfe	ered to		125

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

•	•		•		
CHEMICAL	EXAMINATION	ΟF	WATER	SEWAGE, INDUSTRIAL	WASTE

	CHEMIC	AL EXAMINAT	TION OF WATE	R,SEWAGE,I	INDUSTRIAL W	ASTE 16-247- 2/82
F	IELD NO.	TT1020 TT1020	LAB NO. 10/83	3-262	DATE	بالمائه عيم
	አ NAME OR FI	JJ 10 20	Jameso			• •
_	ADDRESS O	R LOCATION	<u> Wyandan</u>	ch AUE, U	Jyandonch	· ·
	POINT OF C		DISTRIBUTIO	ow Pool	9	:
TREMARKS/INSTRUCTIONS						
	TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
	pH(LAB)		TOTAL SOLIDS	Mg/I	COPPER 10	3.6 Mg/1
_	CHLORIDE	Mg/I	SUSPENDED SOLIDS		IRON	•1
	CYANIDE		DISSOLVED SOLIDS		MANGANESE	
	MBAS				СНВОМІИМ-ТОТ	C:02
	COD	. • .	:		NICKEL	1.3
! ! !	тос		**.		ZINC	• 33
					LEAD	<.2 <
			•		Y CADMIUM	C.02
	NITRATE-N				SILVER	1.07
	NITRITE	•			CHROMIUM-+6	
=	AMMONIA-N				1 3.7	<u> -</u>
	TKN /0,0	2.0	· pH (FIELD)	• •		
./	Fluoride3,0	1.7	TEMP. (FIELD)		****	-
ļ.,	NO ME	THOD OF PRE	SERVATION	HNO ₃ TO pH	<2 □COOL 4.	C -
r		•	CUSTODY OF	SAMPLE		·
ב	URING TRANS	PORT OF THE	SAMPLE FROM SA	MPLING SITE	TO LABORATOR	Y, THE
	HAIN OF CUST		• • • •		WILL REQUIRE	
_	AMPLE BE DE		IE SAMPLE COLLE The receipt, int		•	
•	URING SHIPME	N T		AFFILIATION	OF F	
•	*. COLLECTED BY TOHOSON 500 HS 10/20/83 10 AM					
			TOKNSON	SCDHS	10 20/83 10 A	m 10/20/8 12
7	. POSSESSION	N BY			DATE / TIME T	D DATE/- TIME 7
	RECEIVED L	AB BY	m		DATE - TIME T	O DATE - TIME
5	POSSESSION	I В У		·	DATE .	TIME
POSSESSION BY					U DATE - TIME	

-4	CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE					
ـــــــــــــــــــــــــــــــــــــ	/ //	2 >757 10.20	LAB NO. 10/8:			
_	NAME OR FI	RM	JAMECO	Allera Allera	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	ADDRESS OF	R LOCATION	Wynndano Leeching	POOL CI	lyand D	
	• • •	STRUCTION				
-	TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
	pH(LAB)	et with the	TOTAL SOLIDS	мg/I	COPPER	·62 Mg/I
	CHLORIDE	Mg/L	SUSPENDED SOLIDS .		IRON .	• /
	CYANIDE '		DISSOLVED SOLIDS	•	MANGANESE	
	MBAS	· 数据,数 。			CHROMIUM-TOT	.03
	COD				NICKEL	.6
.T	TOC	3.		,	ZINC	.22
			2		LEAD	C· 2
لعد		• • •			CADMIUM	<.02
	NITRATE-N	t in the second			SILVER	<.02
]	NITRITE .	•	٠.	• .	CHROMIUM-+6	
	AMMONIA-N				7 1 .	_
4	TKN	.5	pH (FIELD)			
	Fluoride	.6	TEMP. (FIELD)			· <u>-</u>
ir	PO MET	THOD OF PRE	SERVATION [HNO ₃ TO pH «	<2 □ COOL 4°	c -
			CUSTODY OF	SAMPLE		
D	URING TRANS	PORT OF THE	SAMPLE FROM SA	MPLING SITE	TO LABORATOR	Y, THE
	•		UNBROKEN. GEN		WILL REQUIRE	THAT THE
_			HE SAMPLE COLLE The receipt, int			HE SAMPLE
	URING SHIPME			AFFILIATION		
1	. COLLECTED	BY \T	TOHOSON _	SCNHS	10/20/83	115 m
	POSSESSION BY TOHOSON SCORS 1020/33 11 Am 1020/32 12 Am 10					
'n	. POSSESSION	1 BY	···		DATE - TIME T	
_•	RECEIVED L	ав ву <i>b</i>	·m		- 10/20 Pm .	TIME
5.	POSSESSION	BY	···	· · ·	DATE - TIME T	O DATE - TIME
•	POSSESSION	В У		***************************************	DATE - TIME T	O DATE - TIME
_						

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

	CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE					
 		4 551020 5 551020 6 551020	LAB NO. 10/8	3-265	DATE -	41086:-
	NAME OR FI		JAMECO	0 10 11 1	-16	(1)-1 (1) (6)-1 (1)
ı		R LOCATION	- Wyana.	AUE, WYD	nan	
٦	POINT OF C	OLLECTION	_ <i>WEII_POII</i>	() T		
 -	TEST	RESULTS	TEST	RESULTS	TEST.	RESULTS
, 	pH(LAB)		TOTAL SOLIDS	мд/1	COPPER	.02 Mg/I
-	CHLORIDE	Mg/I	SUSPENDED		IRON	•/
Γ.	CYANIDE		DISSOLVED SOLIDS		MANGANESE	
 	MBAS				CHROMIUM-TOT	<.02
J	COD				NICKEL .	V.1
	TOC	·			ZÍNG	<.1
 					LEAD	<·2
ĭ		·			CADMIUM	<.02
占」	NITRATE-N				SILVER	<.02
-	NITRITE	•	·		CHROMIUM-+8	•
,r. 	AMMONIA-N			·		- .
	TKN	· · l	pH (FIELD)	•.•		
<u> </u> '`_	Fluoride	<.5	TEMP. (FIELD)			· -
) 	No WE	THOD OF PRE	SERVATION []	HNO ₃ TO pH <	(2 DCOOL 4°	c
-			CUSTODY OF	SAMPLE		
•		• •••	SAMPLE FROM SA			-
	CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE					
	SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESENTATIVE WHO WILL SIGN FOR THE RECEIPT. INTEGRITY AND TRANSFER OF THE SAMPLE					
	DURING SHIPMENT. NAME AFFILIATION					
1	. COLLECTED	BY	TOHNSON	SONAS	10/20/83	1/35 AM
l ^{−2} .	POSSESSION	BY	OHOSON	500#5	10 120/83 11 AM	10/20/83 12 %
,	POSSESSION	I B Y		· · · · · ·	DATE - TIME TO	DATE - TIME
┌┪.	RECEIVED LA	AB BY			DATE	TIME
3.	POSSESSION	В Ү		· · · · · · · · · · · · · · · · · · ·	DATE - TIME TO	. '
į ė.	POSSESSION	B Y			DATE - TIME TO	. 1

FOLK COUNTY HEALTH SERVICES LABORATOR

SUFFOLK COUNTY HEALTH SERVICES LABORATORY
CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

		· · · · · · · · · · · · · · · · · · ·			10.247. 274
ELD NO. 1 T T 10 20 LAB NO. 10/83 - 26/ COMPLETED 10/25/83					
	RM	_ •	:		S. yathan
ADDRESS O	R LOCATION	WUANDA	nch Aue, W	uandench	· · ·
OINT OF C	•	- SIMPLE		,	
REMARKS/II	VSTRUCTIONS	S			
TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
pH(LAB)		TOTAL SOLI	DS Mg/I	COPPER	(6.6) Mg/1
CHLORIDE	Mg/I	SUSPENDED SOLIDS		IRON	<.05
CYARIDE	200	DISSOLVED SOLIDS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MANGANESE	
MEAS				CHROMIUM-TOT	.08
COD				NICKEL .	(2.4-)
тос	:			ZINC ATTE	** 8
				X LEAD	<-2
				CADMIUM	<.02
JITRATE-N		A Section		SILVER	<.02
NITRITE		47.5		CHROMIUM-+6	444
AMMONIA-N	11 - 11 - 12 - 12 - 12 - 12 - 12 - 12 -				
TKN		pH (FIELD)	<u> </u>	7	
		TEMP. (FIELD) (4. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	· · · · · · · · · · · · · · · · · · ·	
NO MET	THOD OF PRE	SERVATION	□ нио _з то рн	<2 □ COOL 4°	C
		CUSTODY OF	SAMPLE		
IRING TRAKS		SAMPLE FROM		TO LABORATOR	Y, THE
HAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE MPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN-					
TIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE					
URING SHIPMENT. NAME AFFILIATION					
- COLLECTED BY JOHNSON SCARS 10 60/83 10 nm					
POSSESSION	в	TOHNSON	SCAHS	10/20/23 10 A	m 10/20/23 12"
- POSSESSION	ВУ			DOTE /- TIME TO	DATE - TIME
RECEIVED LA	AB BY	/s·m		DATE - TIME T	DATE - TIME
- POSSESSION	вү ,			/. DATE	TIME
	DATE - TIME TO DATE - TIME				

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

_	·		·	<u> </u>			18-247: 2/82
5.	FIELD NO	2008/18	LAB NO. 8-8	4-187	c o	DATE MPLETED S	36/84 2 -
<u> </u>		***************************************	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	i d
ļ	NAME OR FI	RM	Jamea I	ixli Inc.			
Ŧ	ADDRESS O	Ř LOCATION	Jamesa 1 Wyanda SPDES 8	weh Ave.	<u>U</u>	Jyondone	<u>6</u>
ı	POINT OF C	OLLECTION	SPDES 0	cal B-11			· ·
<u>_</u>	REMARKS/II	NSTRUCTIONS	S	`		· · · · · · · · · · · · · · · · · · ·	<u> </u>
_	TEST	RESULTS	TEST	RESULTS		TEST	RESULTS
Γ	pH(LAB)		TOTAL SOLIDS	mg/1	X	COPPER	·5 Mg/1
_ <u>-</u>	CHLORIDE	Mg/I	SUSPENDED SOLIDS		X	IRON -	•2
Γ	CYANIDE	·	DISSOLVED			MANGANESE	
_X	MBAS	.2			M	CHROMIUM-TOT	/
	COD			·	X	NICKEL	.6
	тос				K	ZINC	•6
V	Florida	1.5			X	LEAD	<·2
<u>.</u>	1	·	·	·_	X	CADMIUM	<.02
	NITRATE-N					SILVER	•
-i	NITRITE				X	CHROMIUM-+6	•
\ -	AMMONIA-N						-
	TKN		pH (FIELD)	3/120			
1			TEMP. (FIELD)				· -
= -	ME.	THOD OF PRE	SERVATION	НИО3ТО РН	<2	COOL 4°	C
			CUSTODY OF	SAMPLE			
<u>ר</u>	DURING TRANS	PORT OF THE	SAMPLE FROM S	AMPLING SITE	T	LABORATOR	Y, THE
	HAIN OF CUST			NERALLY THIS			_
_ S _T	SAMPLE BE DE ATIVE WHO W		HE SAMPLE COLL The receipt. In	ECTOR OR HIS TEGRITY AND			
ם .	URING SHIPME	. N T	NAME	AFFILIATION	• • •		IL SAMPLE
١	. COLLECTED	\mathcal{D}	Obres	SCDHS		A. 16.84	1105
2	. POSSESSION	I BY	0			DATE	TIME
Č	. POSSESSION	 			_	DATE - TIME T	
4	. RECEIVED L	AB BY	Jathen _		_	DATE - TIME T	
5	. POSSESSION	BY/				/ DATE	TIME
, 3	. POSSESSION	BY				DATE - TIME T	C CATE - TIME
				•		DWIF - IIME	U UNIC - IIME]

SUFFOLK COUNTY HEALTH SERVICES LABORATORY

CHEMICAL EXAMINATION OF WATER, SEWAGE, THOUSE THE 18-247-2-57						
F	FIELD NO. 1008/16 LAB NO. 8-84-186 COMPLETED 8 30/84 1000					
T	NAME OR FI	RM		o Judi Je		Cultura
}	ADDRESS OF		Wyon	dark Au	· Wyandane	140x
•	POINT OF C		5 PXS ,	saugle box,	insule Jan	neus
Γ		ISTRUCTIONS	group de	additus i	Proncontact co	بمارم تنصل و
	TEST	RESULTS	TEST	RESULTS	TEST	RESULTS
	pH(LAB)		TOTAL SOLID	S Mg/I	COPPER 10	6.) Mg/i
- 	CHLORIDE	Mg/I	SUSPENDED SOLIDS		KIRON .6	(6)
 -	CYANIDE		DISSOLVED	·	MANGANESE	1
ίΧ	MBAS	1.2	·		CHROMIUM-TOT	(1.6x10)
	COD	15		·	NICKEL 212	7.
\\ -	TOC				ZINC	4.
, T	Floride	(4.1)	·		LEAD 0,35	•4
	1	519253.0			CADMIUM	<.02
F	NITRATE-N				SILVER	
 	NITRITE			·	CHROMIUM-+6	·
1	AMMONIA-N		•			
	TKN	·	pH (FIELD)	(Phi 12)		
Ţ			TEMP. (FIELD	,		-
METHOD OF PRESERVATION NHO3TO PH <2 COOL 4°C						
	•	•	CUSTODY O	SAMPLE		
	DURING TRANS	SPORT OF THE	SAMPLE FROM		TO LABORATO	RY, THE
CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE						
SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN-						
	ATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE OURING SHIPMENT. NAME AFFILIATION					
	DURING SHIPMENT. NAME AFFILIATION 1 1684 1040					
	1. COLLECTED		a crity.	- SOLID	GATE SATE	TIME
	POSSESSIO				DATE - TIME	TO DATE - TIME
	PO-SSESSIO	N BY	Malla D		DATE - TIME	TO. DATE - TIME
1 14	RECEIVED L	/	- Interest		DATE	TIME
1	. POSSESSIO	N BY			DATE - TIME	TO DATE - TIME
⁻e	. POSSESSIO	N BY			DATE - TIME	TO DATE - TIME

CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE FIELD NO. 3008 16 LAB NO. 8-84-188 DATE COMPLETED NAME OR FIRM rondonch ADDRESS OR LOCATION POINT OF COLLECTION REMARKS/INSTRUCTIONS TEST RESULTS TEST RESULTS TEST RESULTS Mg/I pH(LAB) COPPER TOTAL SOLIDS Mq/I SUSPENDED IRON CHLORIDE SOLIDS DISSOLVED MANGANESE CYANIDE SOLIDS CHROMIUM-TO MBAS NICKEL COD ZINC TOC Florido LEAD <->2 ルる C.02 CADMIUM SILVER NITRATE-N CHROMIUM-+6 NITRITE AMMONIA-N TKN pH (FIELD) TEMP. (FIELD) MHNO3TO PH <2 □COOL 4°C METHOD OF PRESERVATION CUSTODY OF SAMPLE URING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE GENERALLY THIS AMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN-THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT. **AFFILIATION** T. COLLECTED BY POSSESSION BY POSSESSION BY TIME - POSSESSION BY DATE - TIME TO DATE - TIME POSSESSION BY DATE - TIME TO DATE - TIME 132

upgradient.

TABLE I

5	ite	\$ 1

-pth from .Grade (ft.)	1,1,2 Trichloro- ethylene
20'	< 5
30'	< 5
40'	18
_ 50'	56

Site #2

Depth from Grade (ft.)	1,1,1 Trichloro- ethane	1,1,2 Trichloro- ethylene
15	577	42
20	237	6
25	482	< 5
30	426	< 5

ite A-2

epth from Grade (ft.)	1,1,1 Trichloro- ethane	Tetra- chloro- ethane
	45	908
20	43	
30	55	318
40	8 .	18
50	18	203

Site C-1

Depth from Grade (ft.)	1,1,1 Trichloro- ethane
20	226
30	34
40	26
	•

Site C-2

Grade (ft.)	Trichloro- ethane	chloro- ethane
20	15	.28
30	40	320
40	24	505
 50	9	32

Site C-3

Depth from Grade (ft.)	1,1,1 Trichloro- ethane	Tetra- chloro- ethylene
20	73	1430 -
30	22	49
40	9	. 2
50	<3	<2

ULSTER AVE INVESTIGATION

AUGUST RD. oe SITE SITE #C! SITE JAMECO #2 FACILITY SITE # C-3 SITE # (-2 Tours Pike HOUSE WRIGHTST. . NOTE: NOT TO SCALE



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

April 30, 1984

Mr. Arnold Fleming, P.E. Allee, King, Rosen & Fleming 114 East 32nd Street New York, New York 10016

Dear Mr. Fleming:

Analysis of the soil samples received April 12, 1984 has been completed. The results are presented in the attached tables.

The determinations were performed in accordance with EPA/NJDEP Approved Methodology.

An invoice is enclosed for the analysis. If you have any questions, please feel free to contact me.

Very truly yours,

PRINCETON AQUA SCIENCE

Daniel Chen, Ph.D., P.E.

Laboratory Manager

DC/mjs Enclosure #5580



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580
• •	Date: 4/30/84
Address 114 East 32nd Street	Auth.:
·	Invoice #: 8638
CITY	Sample Date: 4/12/84 N.J. Lab Certification
To Attn. of: Mr. Arnold Fleming, P.E.	
	ID# 12064

REPORT OF ANALYSIS

Trench 5, Composite 3 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	2,800	<0.02
Copper	1,980	0.093
Nickel	1,180	0.455



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580
	Date: 4/30/84
Address 114 East 32nd Street	Auth.:
NV 10016	Lot #: 4677
City New York State NY Zip 10016	Invoice #: 8638
To Attn. of: Mr. Arnold Fleming, P.E.	Sample Date: 4/12/84 N.J. Lab Certification
10 Attn. 01.	ID# 12064

REPORT OF ANALYSIS

Trench 5, Compsoite 3 ft (No Sludge)

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	0.02	<0.007
Chromium	480	<0.02
Copper	380	0.053
Nickel	240	0.1



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580 Date: 4/30/84
•	Auth.:
Address 114 East 32nd Street	Lot #: 4677
City New York State NY Zip 10016	Invoice #: 8638
	Sample Date: 4/12/84 N.J. Lab Certification
To Attn. of: Mr. Arnold Fleming, P.E.	N.J. Lab Certification
	ID# 12064

REPORT OF ANALYSIS

Trench 5, Composite 7 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	1,900	<0.02
Copper	1,280	0.018
Nickel	250	0.089



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580 Date: 4/30/84
Address 114 East 32nd Street	Auth.:
City New York State NY 7in 10016	Lot #: 4677 Invoice #: 8638
To Attn. of: Mr. Arnold Fleming, P.E.	Sample Date: 4/12/84 N.J. Lab Certification
10 Actin. Or.	ID# 12064

REPORT OF ANALYSIS

Sludge Sample

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/1)
Hexavalent Chromium	<0.04	<0.007
Chromium	16,000	<0.02
Copper	10,600	0.048
Nickel	5,800	1.14



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

 Company Allee, King, Rosen & Fleming
 Job #: 5580 Date: 4/30/84

 Address 114 East 32nd Street
 Auth.: Lot #: 4677 Invoice #: 8638 Sample Date: 4/12/84 N.J. Lab Certification ID# 12064

REPORT OF ANALYSIS

Trench 1, 24 Composite 7 ft.

•	Dry Weight <u>(mg/kg)</u>	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	0.038	<0.007
Chromium	48	<0.02
Copper	32	0.019
Nickel	53	0.017



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

 Company Allee, King, Rosen & Fleming
 Job #: 5580

 Date: 4/30/84

 Address 114 East 32nd Street
 Auth.:

 City New York
 State NY Zip 10016
 Invoice #: 8638

 Sample Date: 4/12/84
 N.J. Lab Certification ID# 12064

REPORT OF ANALYSIS

Trench 1, 4 Composite 5 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/1)
Hexavalent Chromium	0.06	<0.007
Chromi um	30	<0.02
Copper	29	0.027
Nickel	62	0.036

.... is it Care sine to Empirocare



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

REPORT OF ANALYSIS

Trench 1, 29 Composite 3 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	0.055	<0.007
Chromium	140	<0.02
Copper	87	0.028 -
Nickel	39	0.019 -



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800 Company Allee, King, Rosen & Fleming 5580 Job #:_ 4/30/84 Date:_ Address 114 East 32nd Street Auth.:. 4677 Lot #:_ State NY Zip 10016 Invoice #:___ 8638 City New York 4/12/84 Sample Date: 4/12/84 N.J. Lab Certification Mr. Arnold Fleming, P.E. To Attn. of:___ ID# 12064

REPORT OF ANALYSIS

Trench 2, Composite 7 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	0.031	<0.007
Chromium	34	<0.02
Copper	98	0.021
Nickel	55	0.06



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

REPORT OF ANALYSIS

Trench 2, Composite 5 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	43	<0.02
Copper	130	0.019
Nickel	380	0.15



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580
Address 114 East 32nd Street	Date: 4/30/84 Auth.:
	Lot #: 4677
City New York State NY Zip 10016	Invoice #: 8638 Sample Date: 4/12/84 N.J. Lab Certification
To Attn. of: Mr. Arnold Fleming, P.E.	N.J. Lab Certification ID# 12064

REPORT OF ANALYSIS

Trench 2, Composite 3 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/1)
Hexavalent Chromium	<0.02	<0.007
Chromium	160	<0.02
Copper	120	0.033 –
Nickel	105	0.064

and the same of the same of



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

REPORT OF ANALYSIS

Trench 3, Composite 3 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	0.039	<0.007
Chromium	390	0.047
Copper	600	0.076
Nickel	240	0.084

ranga kang a Pamaganan ang Salambagka 🚣 Paganagan.



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Address 114 East 32nd Street City New York State NY Zip 10016 To Attn. of: Mr. Arnold Fleming, P.E. Auth.: Lot #: 4677 Invoice #: 8638 Sample Date: 4/12/84 N.J. Lab Certification	Company Allee, King, Rosen & Fleming	Job #: 5580 Date: 4/30/84
City New York State NY Zip 10016 Invoice #: 8638 To Attn. of: Mr. Arnold Fleming, P.E. Sample Date: 4/12/84 N.J. Lab Certification	Address 114 East 32nd Street	Auth.:
To Attn. of: Mr. Arnold Fleming, P.E. Sample Date: 4/12/84 N.J. Lab Certification		
To Attn. of: Mr. Arnold Fleming, P.E. Sample Date: 4/12/84 N.J. Lab Certification	City New York State NY Zip 10016	Invoice #: 8638
	Amold Floming D F	Sample Date: 4/12/84 N.J. Lab Certification
	To Attn. of: Mr. Armora Freming, F.C.	ID# 12064

REPORT OF ANALYSIS

Trench 3, Composite 5 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	200	<0.02
Copper	165	0.019 -
Nickel	88	0.026 -



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580 - 4/30/84
114 Free 22nd Stroot	Auth.:
. W	Invoice #: 8638
To Attn. of: Mr. Arnold Fleming, P.E.	Sample Date: 4/12/84 N.J. Lab Certification ID# 12064

REPORT OF ANALYSIS

Trench 3, Composite 7 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	290	<0.02
Copper	150	0.027 -
Nickel	80	0.019 -



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

 Company Allee, King, Rosen & Fleming
 Job #: 5580

 Date: 4/30/84

 Address 114 East 32nd Street
 Auth.: Lot #: 4677

 City New York
 State NY Zip 10016
 Invoice #: 8638

 Sample Date: 4/12/84
 Sample Date: 4/12/84

 N.J. Lab Certification
 ID# 12064

REPORT OF ANALYSIS

Trench 4, Composite 3 ft.

Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
<0.06	<0.007
450	<0.02
480	0.058
180	0.034
	(mg/kg) <0.06 450 480



789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company Allee, King, Rosen & Fleming	Job #: 5580
Willharty	Date: 4/30/84
Address 114 East 32nd Street	Auth.:
Address	Lot #: 4677
City New York State NY Zip 10016	Invoice #: 8638
CITY NOW TO K	Sample Date: 4/12/84
To Attn. of: Mr. Arnold Fleming, P.E.	Sample Date: 4/12/84 N.J. Lab Certification
10 Attn. of:	ID# 12064

REPORT OF ANALYSIS

Trench 4, Composite 5 ft.

	Dry Weight (mg/kg)	E.P. Toxicity Leachate (mg/l)
Hexavalent Chromium	<0.02	<0.007
Chromium	85	0.047
Copper	68	0.043
Nickel	86	0.064

Analytical Data

150

D/ TI	ME C	OL. <u>21 - 4 A</u>	SUFFOLI CHEMICAL EXA	K COUNTY HEALTH SEF MINATION OF WATER, S へ <i>Ccつ しゃつ</i> いてご	DATE REC'VD. TIME REC'VD. DATE COMPLE RVICES LABORATOR SEWAGE, INDUSTRIA	TED RY	1.30 P PO 1/2/3/5/) EYC. C1 ⁴⁶ ASTE	
		OR FIRM	24	E WYANDANCH	AVE WY	AN I	MANCH 1179	<u>y</u>
			Effect	NT PT WER	prior to	Duc.	iark(a	<u>ن</u> ن
,		OF COLLECTION RKS/INSTRUCTION					TEST	RESULT ma.
<u>์</u> [TEST	RESULT	TEST	RESULT liter	+		20/
7		CONDUCT	umho	NITRATE-N		7	OPPER	1
t I	1	рН	9.7	NITRITE-N		_	RON	0 (
۱ - آ		TEST	RESULT iter	AMMONIA-N		 _	MANGANESE	2.3
	• •	ph.ALKALINITY		TKN			CHROMIUM	七9分)
-		T. ALKALINITY	·	0-PO ₄ -P			NICKEL	0,0,
		CHLORIDE	-	·		7	ZINC	10
		FLUORIDE					MAGNESIUM	
1 1 1919 11		CYANIDE		TOT. SOLIDS			CALCIUM	1 2 2 .
ı	一			SUS. SOLIDS			LEAD	2.2
-	-	ALLI SATE		DISS. SOLIDS	·		CADMIUM	2.02
ı	-	SULFATE					SILVER	,06
-	-	MBAS					SODIUM	
_	-	C.O.D.					POTASSIUM	
l	-	T.O.C.					BARIUM	
_	-			FIELD D.O.		-	Care	
! l	-	•		FIELD TEMP	·			
-	-			FIELD pH				
_	-			FIELD COND.	umho	<u></u>		/57 36

CHEMTECH

CONSULTING GROUP, INC.

36G West 11th Street / New York, New York 10014 (212) 255-2100

January 26, 1982

AKRF, Inc.

130 West 25th Street New York, N.Y. 10001

Attn: Mr. Arnold Fleming

Page 1 of 2 -

PROJ. NO.: 12110

REF.: 27 Soil Samples - Jameco

LABORATORY REPORT

TES	SAMPLE DESCRIPTION	Nickel	Chromium (Total)	Chromium (Hex)	Copper
B-1	Serial #1	7.0	10.	<0.2	10.
B-1	s #2	8.1	14.	<0.2	12.
B-1	s #3	48.	92.	<0.2	290.
B-1	S #4	42.	100.	<0.2	76.
B-1	SS #5	57.	130.	<0.2	93
B-1	SS #6	44.	200.	<0.2	76.
B-1	SS #7	34.	100.	<0.2	37.
B-2	S #1	8.0	14.	<0.2	13
B-2	S #2	170.	240.	<0.2	170.
B-2	s #3	110.	39.	<0.2	32
B-2	SS #4	130.	330	<0.2	260.
B-2	SS #5	58.	230.	<0.2	77.
		·			
					<u> </u>

REMARKS:

All values are in ppm (mg/kg) based on the weight of the sample as received.

Hexavalent chromium determined on aqueous extract, other metals on acid extract.

Alan Schoffman, Ph.D.

Director, Analytical Services

CHEMTECH

CONSULTING GROUP, INC.

360 West 11th Street / New York, New York 10014 (212) 255-2100

January 26, 1982

Page 2 of 2

AKRF, Inc. 130 West 25th Street New York, N.Y. 10001

Attn: Mr. Asnold Fleming

PROJ. NC.: 12110

REF.: 27 soil samples - Jameco

LABORATORY REPORT

TES	SAMPLE DESCRIPTION ST	Nickel	Chromium (Total)	Chromium (Hex)	Copper
B-3	SS #1	560.	1340.	<0.2	920.
B-3	SS #2	77.	150.	<0.2	98.
B-3	SS #3A	500.	1460.	<0.2	960.
B-3	SS #3B	110.	200.	<0.2	79.
B-3	SS #4	5.8	35.	<0.2	38.
B-4	SS #1	5.8	7.5	<0.2	3.6
B-4	SS #2	4.1	4.0	<0.2	2.0
B-4	SS #3	6.6	5.9	<0.2	2.8
B-4	SS #4	12.	8.1	<0.2	4.4
B-5	SS #1	170.	. 26.	<0.2	22.
B-5	SS #2	59.	71.	<0.2	39.
B-5	SS #3A	75.	25.	<0.2	29.
B-5	SS #3B	99.	340.	<0.2	170.
B-6	SS #1	3.0	3.8	<0.2	2.1
B-7	SS #1	34.	71.	<0.2	150.

REMARKS:

Alan Schoffman, Ph. Director, Analytical Services



360 West 11th Street / New York, New York 10014 (212) 255-2100

January 4, 1982

Page 1 of 2

AKRF, Inc.

130 W. 25th Street New York, N.Y. 10001

Attn: Mr. Fleming

PROJ. NO.:

12109-1

REF .: Wyandanch L.I.

Water Samples

LABORATORY REPORT

	MPLE RIPTION				
TEST		B-1	B-2	Hole #3	Hole #4 -
Nickel	mg/l	6.8	3.4	0.28	0.41
Total Chromium	mg/l	<0.02	<0.02	<0.02	<0.02
Hexavalent Chromium	mg/l	<0.02	<0.02	<0.02	<0.02
Copper	mg/l	0.57	0.15	0.25	0.07
		•			
Date samples receive	d:	12/30/81	12/30/81	12/30/81	12/30/81
Date samples taken:		12/30/81	12/30/81	12/30/81	12/30/81
Do - Andriad?					•
			·		
REMARKS:					

REMARKS:

Alan Schoffman, Ph.D.

Director, Analytical Services

CHEMTECH

CONSULTING GROUP, INC.

360 West 11th Street / New York, New York 10014 (212) 255-2100

January 4, 1982

AKRF, Inc.

130 W. 25th Street

New York, N.Y. 10001

Attn: Mr. Fleming

Page 2 of 2

PROJ. NO.: 12109-1

REF.:

Wyandanch, L.I.

Water Samples

LABORATORY REPORT

	MPLE RIPTION				
TEST		Hole #5	Hole #6	Hole #7	
Nickel	mg/l	0.10	0.33	5.3	
Total Chromium	mg/l	<0.02	<0.02	<0.02	
Hexavalent Chromium	mg/l	<0.02	<0.02	<0.02	
Copper	mg/l	0.10	0.02	0.13	
			-		
·					
				·	
Date samples receive	d:	12/30/81	12/30/81	12/30/81	
Date samples taken:		12/30/81	12/30/81	12/30/81	
Date Sumples					
					-
	<u> </u>	 			
			 		

REMARKS:

RECEIVED JAN 25 1982

Alan Schoffman, Ph.D.

Director, Analytical Services

HOLZMACHER, McLENDON and MURRELL, P.C.

H2M CORP.

575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747

LABORATORY REPORT

LAB ID 03

Tel. (51	6) 694	-3040	
			ADDRESS

S. C. Dept. of Health Services 225 Rabro Drive Hauppauge, NY 11788

TAR NO. 351	452
LAB. NO. 351 TYPE WATER Misc	ellaneous
SAMPLING PT	I.D. #R-4-DO-3-16
DATE SAMPLED	
TIME SAMPLED	
RUN TIME (WELL)	C1. 49

VOLATILE HALOGENATED ug/1	PESTICIDES	<u>ug/1</u>
methylene chloride	lindane	
1,1,1-trichloroethane carbon tetrachloride bromodichloromethane * 1,2-dichloropropane * 2,3-dichloropropene trans-1,3-dichloropropene trichloroethylene 1,1,2-trichloroethane	toxaphene	
* chlorodibromomethane	2,4-D	•
* 1.1.2.2-tetrachloroethane		•
benzene		•

RUN NO. (S)

*Reported value represents total

4/8/83

DATE REPORTED

S OF MELENDON OF E LAB DIRECTOR

<u> </u>	Two Car	(detile (2)
HOLZMACHER, McLENDON and M H2M CORP. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YOR Tel. (516) 694-3040	RK 11747	REPORT
S.C. Dept. of Health Services 225 Rabro Drive Hauppauge, NY 11788	DATE SAMPLE TIME SAMPLE RUN TIME (W	351451 Miscellaneous I.D. #R-3-D0-3-16 3/16/83 D RELL) SY
methylene chloride		epoxide.
* 1.1.2.2-tetrachloroethane		

RUN NO. (S)

penzene.

toluene.

m-xylene . p-xylene .

chlorobenzene

o-xylene . . ethyl benzene

VOLATILE NON-HALOGENATED

*Reported value represents total

4/8/83

<3

<u><3</u>

DATE REPORTED

1/1200 1100 LABORATORY 37 HOLZMACHER, McLENDON and MURRELL, P.C. REPORT H2M CORP. 575 BROAD HOLLOW ROAD; MELVILLE, NEW YORK 11747 LAB ID 03 Tel. (516) 694-3040 351449 LAB. NO. CLIENT NAME AND ADDRESS Miscellaneous TYPE WATER_ I.D. #R-3-D0-3-16 SAMPLING PT._ S.C. Dept. of Health Services JAM- C-10 3/16/83 15 HORSEBLOCK PLACE DATE SAMPLED_ FARMINGVILLE NY 11738 TIME SAMPLED. RUN TIME (WELL) CL 99 COLLECTED BY_ ug/1PESTICIDES ug/1 VOLATILE HALOGENATED **T80** lindane · · · methylene chloride . . . heptachlor. . . 1,1-dichloroethylene . . aldrin. . . . 1,1-dichloroethane heptachlor epoxide. <5 (trans-1,2-dichloroethylene . dieldrin. . <5 lcis-1,2-dichloroethylene . 10 endrin. • chloroform o,p'DDT · · · <5 1,1,2-trichlorotrifluoroethane p,p'DDT . . . 1,2-dichloroethane . . methoxychlor. . < 20 1,1,1-trichloroethane. toxaphene . . . carbon tetrachloride . chlordane . . . bromodichloromethane . 1,2-dichloropropane. . <5 [2,3-dichloropropene. . . trans-1,3-dichloropropene. trichloroethylene. . . HERBICIDES [1,1,2-trichloroethane. . {chlorodibromomethane . . 2,4-D cis-1,3-dichloropropene. . 2,4,5-TP (silvex) . . bromoform. [1,1,1,2-tetrachloroethane. 400 **OTHERS** tetrachloroethylene. . . . 1,1,2,2-tetrachloroethane. vinylchloride * dichlorodifluoro methane. chlorobenzene VOLATILE NON-HALOGENATED penzene. . toluene. . m-xylene . p-xylene . o-xylene . *Reported value represents total RUN NO. (S)

> Suifolk County Dept. Health Services

Herly Colon

REPORTED

HOLZMACHER, McLENDON and MURRELL, P.C.

H2M CORP.

LABORATORY REPORT

_ 575 BROAD HOLLOW ROAD, MELVILLE, NEW YOR	LAB ID 03
• Tel.(516) GB4-3040 CLIENT NAME AND ADDRESS S.C. Dept. of Health Services 15 HORSEBLOCK PLACE FARMINGVILLE NY 11738	LAB. NO. 351450 TYPE WATER Miscellaneous SAMPLING PT. I.D. #R-4-DO-3-16 JAM - FILTER DATE SAMPLED -3/16/83 TIME SAMPLED RUN TIME (WELL) COLLECTED BY CL 99
methylene chloride	PESTICIDES lindane heptachlor aldrin. heptachlor epoxide. dieldrin. endrin. o,p'DDT p,p'DDT methoxychlor. toxaphene chlordane HERBICIDES 2,4-D 2,4,5-TP (silvex) OTHERS

RUN NO. (S)

Reported value represents total

€ 1093

SUFFOLK COUNTY DEPT.
HEALTH SERVICES

REPORTED

SUFFOLK COUNTY HEALTH SERVICES LIBORATORY CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

							18-247: 2/8
1	FIELD NO. 2	DO3-16	LAB NO	3-83-1	182 c	DATE	
٢	NAME OR F	IRM	I OSSWAT	≥ND•			
Γ	ADDRESS O	R LOCATION	anayw_	ANCH AUE	wyan	DANCH	· · · · · · · · · · · · · · · · · · ·
•		OLLECTION	•				. • .• .
-		NSTRUCTIONS		-			
_	TEST .	RESULTS	TEST	RES	ULTS	TEST	RESULTS
F	pH(LAB)		TOTAL SO	LIDS	Mg/I	COPPER	·3 Mg/I
-	CHLORIDE	Mg/1	SUSPENDE	D		IRON	• /
	CYANIDE		DISSOLVE)		MANGANESE	
	MBAS				<u> </u>	CHROMIUM-TOT	2
	COD		••			NICKEL	1.2
	тос					ZINC	7 -
7,,,					X	LEAD	¹ <-2
)(-		·			.	CADMIUM	6.02
-	NITRATE-N	·				SILVER	
!	NITRITE					CHROMIUM-+6	
177	AMMONIA-N						=
(E) - 1	TKN		PH (FIELD)	ph3	E5		
	·	•	TEMP. (FIE	[V			<u> </u>
ŧ 	MET	THOD OF PRE	SERVATION	Днио₃т	O pH <	2 GOOL 4°	C .
[CUSTODY	OF SAMPI	F	•	
D	URING TRANS	PORT OF THE				O LABORATOR	Y. THE
1.		ODY MUST BE					• • •
5	AMPLE BE DE	LIVERED BY TH	E SAMPLE C	OLLECTOR	OR HIS	ESIGNATED R	EPRESEN -
	ATIVE WHO WI Uring Shipme	ILL SIGN FOR T		•		IANSFER OF TI	TE SAMPLE .
			NAME	AFFILI	ATION	•	35
	. COLLECTED	BY DAVID	Obru	SCDH3		16 WAR 83	7 Au
	POSSESSION	В Ү		 		DATE - TIME TO	
	POSSESSION		la .a			DATE - TIME TO	:
٠.	RECEIVED LA	AB BY	y.n			3/16 12.00 .	TIME
ſ	POSSESSION			-		DATE - TIME TO	DATE - TIME
6	POSSESSION	B Y			 	DATE - TIME TO	DATE - TIME

TAN HE

HOLZMACHE ... MCLENDON and MURRELL, P.C.

H2M CORP.

575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747

Tel. (516) 694-3040

LABORATORY 3/ REPORT

LAB ID 03

S.C. Dept.of Health Services 15 Horseblock Place Farmingville, NY 11738	LAB. NO. 352493 TYPE WATER Miscellaneous SAMPLING PT. I.D. #R-6-D0-4-21 DATE SAMPLED 4/21/83 TIME SAMPLED RUN TIME (WELL) COLLECTED BY DO 99
VOLATILE HALOGENATED uq/1	PESTICIDES ug/l
methylene chloride	aldrin. heptachlor epoxide. dieldrin. endrin. o,p'DDT p,p'DDT methoxychlor. toxaphene chlordane HERBICIDES 2,4-D 2,4,5-TP (silvex) OTHERS
o-xylene	• • • • • • • • • • • • • • • • • • • •

RUN NO. (S)

*Reported value represents total

SULL THE COUNTY DEPT.

5/10/83 DATE REPORTED

HOLZMACHER, McLERBOR and MURRELL, P.C. | LABORATORY 37 HZIA CORP.

REPORT

575 BROAD HOLLOW ROAD, MELVICLE, NEW 101	LAB ID 03
Tel. (516) 694-3040	
CLIENT NAME AND ADDRESS	LAB. NO. 352492 TYPE WATER Miscellaneous SAMPLING PT. I.D. #R-5-D0-421
S.C. Dept. of Health Services 15 Horseblock Place Farmingville, NY 11738	DATE SAMPLED4/21/83 TIME SAMPLED RUN TIME (WELL) COLLECTED BYDO 99
· ·	COLLECTED BY DO 99
VOLATILE HALOGENATED ug/1	PESTICIDES . ug/l
methylene chloride 1,1-dichloroethylene 1,1-dichloroethane trans-1,2-dichloroethylene cis-1,2-dichloroethylene { } 1,1,2-trichlorotrifluoroethane 1,2-dichloroethane carbon tetrachloride bromodichloromethane 1,2-dichloropropane 2,3-dichloropropene trans-1,3-dichloropropene trichloroethylene { } 1,1,2-trichloroethane chlorodibromomethane chlorodibromomethane cis-1,3-dichloropropene bromoform	lindane
tetrachloroethylene	OTHERS
COLATILE NON-HALOGENATED Denzene	• • •
toluene	• • • • • • • • • • • • • • • • • • • •
o-xylene <3 ethylbenzene <30	

293

*Reported value represents total

SULLOLK COUNTY DEPT. EFADE SEFVICES

REPORTED DATE

HOLZMACHER, McLENDON and MURRELL, P.C. LABORATORY REPORT Half CORP. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 LAB ID 03 Tel. (516) 694-3040 352494 LAB. NO._ CLIENT NAME AND ADDRESS Miscellaneous TYPE WATER. I.D. #R-7-D0-4-21 S.C. Dept. of Health Services SAMPLING PT .__ 15 Horseblock Place 4/21/83 DATE SAMPLED_ Farmingville, NY 11738 TIME SAMPLED. RUN TIME (WELL) DO 99 COLLECTED BY_ ug/1PESTICIDES <u>ug/l</u> VOLATILE HALOGENATED lindane . . . methylene chloride . . heptachlor. . l, l-dichloroethylene . aldrin. . . 1,1-dichloroethane heptachlor epoxide. trans-1,2-dichloroethylene . dieldrin. . cis-1,2-dichloroethylene . endrin. . chloroform o,p'DDT . 1,1,2-trichlorotrifluoroethane p,p'DDT . 1,2-dichloroethane . . methoxychlor. 1,1,1-trichloroethane. . toxaphene . . carbon tetrachloride . chlordane . . bromodichloromethane . 1,2-dichloropropane. . [2,3-dichloropropene. . . trans-1,3-dichloropropene. trichloroethylene. . . HERBICIDES [1,1,2-trichloroethane. . chlorodibromomethane . . 2,4-D . . . cis-1,3-dichloropropene. 2,4,5-TP (silvex) . bromoform. 1,1,1,2-tetrachloroethane. OTHERS tetrachloroethylene. . . . 1,1,2,2-tetrachloroethane.

COLATILE NON-HALOGENATED

toluene. $\frac{3}{3}$ m-xylene $\frac{3}{3}$ p-xylene $\frac{3}{3}$

*Reported value represents total

RON NO. (S) TO TO

ethylbenzene

5/10/83

DATE REPORTED

Folegia Clyate Tipt. Mealin tervices S. MILENDON, NE LAB DIRECTOR

HOLZMACHER, ACLENDON and MURRELL, P.C. LABORATORY REPORT H2M CORP. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 LAB ID 03 Tel. (516) 694-3040 352488 LAB. NO._ ADDRESS CLIENT NAME AND Miscellaneous TYPE WATER_ SAMPLING PT. I.D. #R-3-D0-4-21 S.C. Dept. of Health Services 15 Horseblock Place 4/21/83 DATE SAMPLED_ Farmingville, NY 11738 TIME SAMPLED_ RUN TIME (WELL)_ COLLECTED BY_ ug/1PESTICIDES <u>ug/l</u> VOLATILE HALOGENATED lindane . . . < 3 methylene chloride . . . heptachlor. . < 3 1,1-dichloroethylene . . < 3 aldrin. 1,1-dichloroethane heptachlor epoxide. < 3 (trans-1,2-dichloroethylene dieldrin. . . cis-1,2-dichloroethylene . .43 endrin. . chloroform < 3 o,p'DDT . 1,1,2-trichlorotrifluoroethane p,p'DDT . < 3 1,2-dichloroethane . . methoxychlor. < 3 1,1,1-trichloroethane. toxaphene . . < 3 carbon tetrachloride . chlordane . <u>< 3</u> bromodichloromethane . < 1,2-dichloropropane. . < 3 [2,3-dichloropropene. . < 3 trans-1,3-dichloropropene. 51 trichloroethylene. 3. . HERBICIDES < 3 (1,1,2-trichloroethane. . < 3 chlorodibromomethane . . < 3 2,4-D cis-1,3-dichloropropene. 2,4,5-TP (silvex) . < 3 bromoform. 1,1,1,2-tetrachloroethane. OTHERS 300 tetrachloroethylene. . . . 1,1,2,2-tetrachloroethane. < 3 vinylchloride

< 3

< 3

Chlorobenzene
VOLATILE NON-HALOGENATED

dichlorodifluoro methane.

penzene. . . . · · ·

toluene. . . m-xylene . . p-xylene . .

o-xylene . .

RUN NO. (ST

*Reported value represents total

JUN 3 1983

SUFFOLK COUNTY LEPT.
HEALTH SERVICES

4/28/83 DATE REPORTED

HOLZMACHE ... MCLENDON and MURRELL, P.C.

H2M CORP.

575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747

LABORATORY REPORT LAB ID 03

gardo april at - section

Tel. (516) 694-3040	and the second seco
CLIENT NAME AND ADDRESS	LAB. NO. 352491
CLICAL NAME AND MODIFIED	Miscellaneous
	SAMPLING PT. I.D. #R-1-D0-4-21
a a a la a la alla de Compiana	SAMPLING PI.
S.C. Dept. of Health Services	DATE SAMPLED 4/21/83
15 Horseblock Place Farmingville, NY 11738 OK File	D(10 0)((10 0)
Farmingville, NY 11738 OK	TIME SAMPLED
m. Obr~	RUN TIME (WELL)
Acc. Q	COLLECTED BY DU 99
	COBBECTED DI
	PESTICIDES ug/1
VOLATILE HALOGENATED ug/1	PESTICIDES .
methylene chloride	lindane
1,1-dichloroethylene	heptachlor
l, l-dichloroethane	aldrin
* (trans-1,2-dichloroethylene	heptachlor epoxide
* cis-1,2-dichloroethylene	dieldrin
chloroform · · · · · · · · · · · · · · · · · · ·	endrin
1,1,2-trichlorotrifluoroethane	o,p'DDT
1,1,2-trichlorottilluoloethane •	p,p'DDT · · · · · · · · · · · · · · · · · ·
1,2-dichloroethane	
1,1,1-trichloroethane	methoxychlor
carbon tetrachloride	toxaphene
bromodichloromethane	chlordane
*[1,2-dichloropropane	• • •
*/2,3-dichloropropene	
trans-1,3-dichloropropene	
trichloroethylene	
(1,1,2-trichloroethane	HERBICIDES
	ingro1C1200
*{chlorodibromomethane	9.4.5
cis-1,3-dichloropropene	2,4-D
bromoform	2,4-D
[1,1,1,2-tetrachloroethane	-
[tetrachloroethylene	OTHERS .
*/1,1,2,2-tetrachloroethane	
vinylchloride	
* dichlorodifluoro methane.	• • • • • • • • • • • • • • • • • • • •
chlorobenzene	
	• • •
VOLATILE NON-HALOGENATED	• • •
. W	
benzene	• • •
toluene	• • •
m-xylene <u>< 3</u>	
p-xylene	
o-xylene	
othylhenzene <3	

*Reported value represents total

5/9/83

DATE REPORTED

SUITELN COURT PERT. heren services

S.C. MELTHOOK P.E LAB DIRECTOR

LABORATORY HOLZMACHER, MCLENDON and MURRELL, P.C. REPORT H2M CORP. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YORK 11747 LAB ID 03 Tel. (516) 684-3040 352487 LAB. NO.. CLIENT NAME AND ADDRESS Miscellaneous TYPE WATER I.D. #R-1-D0-4-21 S.C. Dept. of Health Services SAMPLING PT .__ 15 Horseblock Place 4/21/83 DATE SAMPLED_ Farmingville, NY 11738 TIME SAMPLED_ RUN TIME (WELL)_ COLLECTED BY__ <u>ug/1</u> PESTICIDES vg/1VOLATILE HALOGENATED lindane . . . methylene chloride . . heptachlor. . . < 3 1,1-dichloroethylene . . aldrin. 1,1-dichloroethane heptachlor epoxide. * (trans-1,2-dichloroethylene . dieldrin. . . cis-1,2-dichloroethylene . < 3 endrin. . chloroform o,p'DDT . < 3 1,1,2-trichlorotrifluoroethane p,p'DDT . . . <u>< 3</u> 1,2-dichloroethane . . . methoxychlor. < 1-2 1,1,1-trichloroethane. < 3 toxaphene . . carbon tetrachloride . . <u>< 3</u> chlordane . . . bromodichloromethane . <u>< 3</u> 1,2-dichloropropane. . <u>< 3</u> [2,3-dichloropropene. . . <u>< 3</u> trans-1,3-dichloropropene. <u>< 3</u> trichloroethylene. HERBICIDES < 3 [1,1,2-trichloroethane. . __3 (chlorodibromomethane . . 2,4-D cis-1,3-dichloropropene. 2,4,5-TP (silvex) bromoform. <u><3</u> 1,1,1,2-tetrachloroethane. 700 OTHERS tetrachloroethylene. . . . 1,1,2,2-tetrachloroethane. < 3 vinylchloride | <u>< 3</u> dichlorodifluoro methane. chlorobenzene VOLATILE NON-HALOGENATED mr penzene. . . toluene. . m-xylene . p-xylene . o-xylene .

RUN NO. (S) RECEIVED

*Reported value represents total

JUN 3 1953

SUFFOLK COUNTY DEPT.
HEALTH SERVICES

4/28/83 DATE REPORTED

SUFFOLK COUNTY HEALTH SERVICES LABORATORY CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE

<u>-</u> ار،		DO 2-16		AB NO. 3-8	83-182		DATE MPLETED —	3/23/830 20
-	IELD NOK_	M 2.10	<u></u>	AB NU) - 13 - 13 - 13 - 13 - 13 - 13 - 13 - 1	; o	MPLEIED -	
-				JAMECO IND.		• :		AFI
	NAME OR FII						>0.4(C.L.)	
	ADDRESS OF	R LOCATIO	DN .	WYANDANCE	· AUE, WYE	<u>, 103</u>	DANCE 265	
				FILTER BO				 · ·
_	REMARKS/IN	ISTRUCTION	ВИС	317RD 02 CO	JOLING WATER	<u>. 6</u>		
L	TEST	RESULT	s	TEST ·	RESULTS		TEST	RESULTS
ļ	pH(LAB)			TOTAL SOLIDS	Mg/I	K	COPPER	·3 Mg/I
-	CHLORIDE	N	¹9/1	SUSPENDED SOLIDS		X	IRON	•/
-	CYANIDE	•		DISSOLVED SOLIDS			MANGANESE	·
;	MBAS					X	CHROMIUM-TOT	· 2 ·
-	COD			-		X	NICKEL .	1.2
-	TOC ·						ZINC	
į.						<u> </u>	LEAD	<.2
_						X	CADMIUM	<.02
	NITRATE-N				4/8/83	X	SILVER	<.02
	NITRITE				77.		CHROMIUM-+6	•
	AMMONIA-N							- ;
	TKN			pH (FIELD)	Phy \$5			
				TEMP. (FIELD)				
	ME.	THOD OF	PRES	SERVATION X	HNO ₃ TO pH	<2	COOL 4°	c -
l Ī								
1-			-	CUSTODY OF		т	O LABORATOR	Y. THE
	DURING TRANS Hain of Cusi			.	NERALLY THIS		ILL REQUIRE	
	SAMPLE BE DE		Y THI	E SAMPLE COLLI				
	ATIVE WHO W	_	OR T	HE RECEIPT, IN		TF	RANSFER OF T	
_	OURING SHIPME	ENT.	N		AFFILIATION		~ ^^	35 0.23
	I. COLLECTED	BY DA	und C	Spend S	CDHS	_	16 WAR 83	TIME
	. POSSESSIOI	N BY					DATE - TIME	TO DATE - TIME
	PO\$SESSIOI	N BY		<u> </u>		 .		TO DATE - TIME
- -	. RECEIVED L	AB BY		g.,		_	3/16 12.00 DATE	TIME
	. POSSESSION	4 BY				-	DATE - TIME	TO DATE - TIME
,~ 5	POSSESSION	4 BY				_	DATE - TIME	TO DATE - TIME



(155 COMPRISED 5-16-E3

SUFFULK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCHENCES PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

Name JAWSCO INdi	· ×
Iocation Wandarch Ave.	Wyandanch.
Point of collection peterele on &	unge tank Brammell.
Remarks: THE W	JORKS
Compound ppb	Стифолид ррр
Methylene Chloride	Banzene
Freon 113	Toluene <a>< 10
Chloreform	o-Xylene <u>< 10</u>
1,1,1 Trichloroethane14	m,p-xylene210
Carbon Tetrachloride	Xylenes
1,1,2 Trichloroethylene45	Chlorobenzene
Chlcrofibranamethape	Ethylbenzene410
Tetrachlorcethylene	Chlorotolyenes
Bromoform45	1,3,5 Trimethylbenzene
Eronodichloromethane3	1,2,4 Trinethylbenzere
1,1,2 Trichloroethane <u><5</u>	m,p Dichlorobenzere
s-Tetrachloroethane43	o-Dichlorobenzene
n-Decane440	p-Diethylbenzene
Undecane	p-Ethyltoluere
Dodecane	1,2,4,5 Tetramethylbenzene
n-Tridecane40	Octane
Bronobenzene	n-Nonane.
والمسروع المستدرين	/ ·
·	

CUS Or	tody must not l a designated n	be broken. The sam epresentative who w	collection point to pole should be deliver till sign for the reco	laboratory, the december the sample sipt, integrity a	chain of e collector and transfer
of	the sample duri	ing shipment. SIGNATURE	MOLETITATION	DATE :	TDE
1.	Collected by	0101	SCOHS.	21April 33	- 36 pm
- 2.	Transfered to	Francis of Osme	mola SIDHS-PHL	4-21-83	3:30Pm
	Transfered to	U	·	· ·	·····
4.	Transfered to			····	•

SUFFOLK CO NTY HEALTH SERVICES L.BORATORY

1	CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE							
	FIELD NO	DO 11-21	LAB NO.	-83-26	00	DATE MPLETED —	5/11/82 2	
	NAME OR FIRM James Find Inc. - ADDRESS OR LOCATION Wyandbark. POINT OF COLLECTION (Pict (-10))							
	REMARKS/IN	NSTRUCTIONS	S			· · · · · · · · · · · · · · · · · · ·	·	
	TEST	RESULTS	TEST	RESULTS		TEST	RESULTS	
	pH(LAB)		TOTAL SOLI	os <u>**g/1</u>		COPPER	Mg/I	
) ; 	CHLORIDE	Mg/I	SUSPENDED SOLIDS			IRON	·	
	CYANIDE	· ·-	DISSOLVED	·		MANGANESE		
_	MBAS				K	CHROMIUM-TOT	.06	
	COD					NICKEL		
- _	тос					ZINC		
		`			X	LEAD	< 2-	
¥		,			X	CADMIUM	C.02	
 	NITRATE-N					SILVER -		
<u> </u> <u> </u>	NITRITE				×	CHROMIUM-+6	:	
F	AMMONIA-N						, - ,	
 • -	TKN		pH (FIELD)					
<u> </u>			TEMP. (FIELD))			•	
160	ME.	THOD OF PRE	SERVATION	□HNO ₃ TO pH	<2	COOL 4°	c -	
اً			CUSTODY O	F SAMPLE				
ነ	During trans	PORT OF THE	SAMPLE FROM	SAMPLING SITE	T	O LABORATOR	Y, THE	
•	HAIN OF CUS	TODY MUST BE		ENERALLY THIS	W	ILL REQUIRE	THAT THE	
		LIVERED BY T		LLECTOR OR HIS Integrity and	3 C TA	DESIGNATED R	EPRESEN - He sample	
	DURING SHIPME		NAME	AFFILIATION	- •	i		
	1. COLLECTED		I Obn	200173		21 April 83	1/ 60 Mu	
	i. COLLECTED	(D	Oryo De	5CDH5	_	21Dral 3 11.4	3/1/4/83 23	
H,	POSSESSIOI	•	8		_	DAYE - TIME T	O DATE - TIME	
],-	. RECEIVED L	(bm		_	DATE - TIME T	TIME	
۱.	. POSSESSION	N BY				DATE - TIME T	/7	
,	. POSSESSION	N B Y				DATE - TIME T		

SULFOLK CC NTY HEALTH SERVICES L BORATORY CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE DATE FIELD NO. 200 4-21 LAB NO. 5-83-25 COMPLETED JAMECO ILDILAC. ADDRESS OR LOCATION WYANDANCE POINT OF COLLECTION REMARKS/INSTRUCTIONS TEST RESULTS RESULTS RESULTS TEST TEST MQ/I Mg/I COPPER TOTAL SOLIDS pH(LAB) SUSPENDED Mg/I IRON CHLORIDE SOLIDS DISSOLVED MANGANESE CYANIDE SOLIDS CHROMIUM-TOT < 02 MBAS NICKEL . COD ZINC TOC LEAD CADMIUM : 02 SILVER NITRATE-N CHROMIUM-+6 NITRITE AMMONIA-N pH (FIELD) TKN TEMP. (FIELD) METHOD OF PRESERVATION THOSTO PH <2 COOL 4°C CUSTODY OF SAMPLE DURING TRANSPORT OF THE SAMPLE FROM SAMPLING SITE TO LABORATORY, THE CHAIN OF CUSTODY MUST BE UNBROKEN. GENERALLY THIS WILL REQUIRE THAT THE SAMPLE BE DELIVERED BY THE SAMPLE COLLECTOR OR HIS DESIGNATED REPRESEN-TATIVE WHO WILL SIGN FOR THE RECEIPT, INTEGRITY AND TRANSFER OF THE SAMPLE DURING SHIPMENT. AFFILIATION NAME 1. COLLECTED BY 2. POSSESSION BY . POSSESSION BY 5. POSSESSION BY DATE - TIME TO DATE - TIME . POSSESSION BY

CATE - TIME TO DATE - TIME

· · · · · · · · · · · · · · · · · · ·	Cama at her Johnes 37
HOLZE/CHER, ECLERDON and M. HALL CORP. 575 BROAD HOLLOW ROAD, MELVILLE, NEW YOR Tel. (516) 694-3040	LABORATORY REPORT
CLIENT NAME AND ADDRESS S.C. Dept. of Health Services 15 Horseblock Place Farmingville, NY 11738	LAB. NO. 352917 TYPE WATER Miscellaneous SAMPLING PT. I.D. #R-3-D0-5-11 DATE SAMPLED 5/11/83 TIME SAMPLED RUN TIME (WELL) COLLECTED BY DU 99
methylene chloride	PESTICIDES . ug/l lindane
l,l-dichloroethane	aldrin
l,l,l-trichloroethane carbon tetrachloride bromodichloromethane 1,2-dichloropropane 2,3-dichloropropene trans-1,3-dichloropropene trichloroethylene	chlordane
\ \langle \	PERBICIDES 2,4-D
COLATILE NON-HALOGENATED	
toluene.	

. JUN 21 1983

SUFFOCE COURTY (127). HEALTH SERVICES

*Reported value represents total

DATE REPORTED

WAS USED BY IN TO THE STATE OF
STEFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES, PUBLIC HEALTH LABORATORY

JAMECC

TRACE OFGANIC AVALYSIS OF INDUSTRIAL WASTE

De	C	7	
•		_ \	

Note Sump-Wypaklowie	LAse	
	Wyandanch.	•
		•
Point of collection Ensk side Jung	•	
Petarks: UHU ONLY		ppb
Corround page	Остроилд	410
Methylene Chloride	Benzene	···· <u>270</u>
Freom 113	Toluene	<u>10</u>
Chlorofoim45	o-Xylene	<u> </u>
1,1,1 Trichloroethane4	m,p-Xylere	
Carbon Tetrachloride	_Xylenes	
1,1,2 Trichloroethylene45	Chlorobenzene	<u>~ 12</u>
Chlorofibraraethere. 47	Ethylberzene	<u> </u>
Tetrachloroethylene4J	Chlorotolugnes	<u> </u>
Eronoform5	1,3,5 Trimethylbenzene	<u>~10</u>
Bronodichloromethane	1,2,4 Trimethylbenzene	<u>~10</u>
1,1,2 Trichloroethane5	m,p Dichlorobenzere	
s-Tetrachlorosthane	o-Dichlorobenzene	<u>~14</u>
n-Decane 419	p-Diethylbenzene	
Dromane.	p-Ethyltoluene	<u>210</u>
Dojecane	1,2,4,5 Tetramethylbenzene	<u>~10</u>
n-Tridecane40	Octane	-40
Brombenzene 4/b	n-Nonane	<u> </u>
21.03:02:02:02:02:02:02:02:02:02:02:02:02:02:		•

During transport of the sample from collection point to laboratory, the chain of custody must not be broken. The sample should be delivered by the sample collector or a designated representative who will sign for the receipt, integrity and transfer of the sample during shipment.

SIGNATURE AFFILIATION DATE TIME

_	Collected by Old SCDHD	June 83	215 pm
1.	Transferred to Transf	-Troe. 1-83	4:159
2.	Transferred to ZAANVALLE SCHOOL SCHOOL	0	
	Transferred to		

4. Transfered to

-	CHEMICAL EXAMINATION OF WATER, SEWAGE, INDUSTRIAL WASTE						
F	IELD NO	DO1-6	LAB NO. 6-8	3-28	0	DATE MPLETED (9/13
<u> </u> –							
1	NAME OR FI	RM	MYAWDAM	JCH AUEIT SU	<u> </u>	<u></u>	
-	ADDRESS OF	R LOCATION	MANDA	KH AUE, C	<u>''</u>	YANDANCH.	
	POINT OF CO	OLLECTION	sump-	EAST 510C,			
-	REMARKS/IN	STRUCTIONS					
	TEST	RESULTS	TEST	RESULTS		TEST	RESULTS
	pH(LAB)		TOTAL SOLIDS	Mg/I		COPPER	Mg/1
	CHLORIDE	Mg/L	SUSPENDED			IRON	
=	CYANIDE		DISSOLVED SOLIDS			MANGANESE	
	мваѕ				X	CHROMIUM-TOT	<-·02
-	COD				X	NICKEL	<.1
	тос					ZINC	
-		`			X	LEAD	<>2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
1	. 				X	CADMIUM	V.02
	NITRATE-N				×	SILVER	U.02
-	NITRITE					CHROMIUM-+6	-
-	N-AINONINA						
_	TKN		pH (FIELD)				
-			TEMP. (FIELD)				•-
-	ME.	THOD OF PRE	SERVATION X	(HNO ₃ TO pH	<2	COOL 4°	С -
			CUSTODY OF	SAMPLE			
1			SAMPLE FROM S	•			_
			UNBROKEN. GE He sample coll				
T	AMPLE BE DE Ative who w	LIVERED BY II	THE RECEIPT. IN	ITEGRITY AND	TI	RANSFER OF T	HE SAMPLE
1	URING SHIPMI		NAME	AFFILIATION			
-	. COLLECTED	BY David	Obry	SCD:45		1JUNE 83	2 15 PIU
	. POSSESSIOI	N BY				DATE - TIME	TO DATE - TIME
-	. POSSESSIO	N B Y				DATE - TIME	TO DATE - TIME
	. RECEIVED L	AB BY	19. m			G/I IM	TIME
5	. POSSESSIOI	N BY			_	DATE - TIME	TO DATE - TIME
	. POSSESSIOI	N B Y	<u> </u>			DATE - TIME	TO DATE - TIME
<u> </u>							174



PETER F. COHALAN SUFFOLK COUNTY EXECUTIVE

DEPARTMENT OF HEALTH SERVICES

Jameco Industries 248 Wyandanch Ave. Wayandanch, NY 11798

Date	5-9-83			
SPDES	NO.	-		
Lab.	No. $\overline{3}$	144	9	
Field	No.	ID :	R3	DO-3-16

Gentlemen:

On 16 March 1983 samples of industrial waste were taken from your (Industrial waste leaching pool) C-10 Upon analysis, the following parameters were found in concentrations above the maximum allowed in your SPDES Permit or in groundwater effluent standards:

- . Methylene chloride 180 ppb.
- Trichloroethylene 85 ppb.
- Tetrachloroethylene 1,400 ppb. 8.
- 4. 9.
- 5. 10.

Please be advised that these unsatisfactory conditions constitute violations of the N.Y.S. Environmental Conservation Law and/or the Suffolk County Sanitary Code. Please be further advised that the discharge of any water from an industrial process to the groundwater of Suffolk County without having first obtained a State Pollutant Discharge Elimination System (SPDES) Permit for that discharge is also a violation of the N.Y.S. E.C.L. and/or the Suffolk County Sanitary Code, Article 12.

If you do not already possess a valid SPDES Permit for the above discharge, then you should apply immediately through this office for said permit.

Since the above-noted violations may subject you to legal action, it is expected that these violations cease immediately. Violations of the Suffolk County Sanitary Code are subject to the imposition of a civil penalty of up to Five Hundred (\$500) dollars per violation. E.C.L. violations are also subject to a civil penalty. A reinspection in the near future will determine your compliance in this matter.

Very truly yours,

John H. Finkenberg, Sr. Sanitarian Environmental Follution Control

15 Horseblock Pl. (STE REVERSE SIDE FOR STANDARDS) mingville, NY 11738

(516) 451-4628

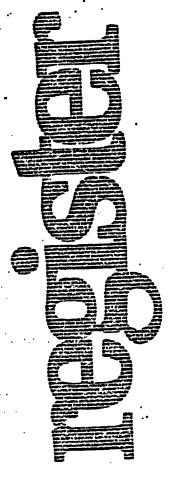
NO. 1W-102038 D 10 10 13 By 174 () ELD NO. 9 75/10-20

 DATE	COMP	LET	ED_	11-21-53
FYAMI	NED	BY_	KH	3 7
				9/

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF MEDICAL LEGAL INVESTIGATIONS & FORENSIC SCIENCES PUBLIC HEALTH LABORATORY

TRACE ORGANIC ANALYSIS OF INDUSTRIAL WASTE

TRACE ORGANIZO	••	
Vame James Tra Trac		·
Vame Cautes res		
L cation	Upadarel.	
Print of Collection SPOIS DISH F	Pag_ = C-10	
F marks:	Compound	ppb
Compound pbb		. 216
	Cis Dichloroethylene	410
Methylene Chloride	BenzeneToluene	
	Chlorobenzene	·· <u> 412</u>
This is a second of the second	Ethylbenzene	
1 Making Chiarian and 1986	<pre>Xvlene(s)</pre>	
le 1 2 Trachloroethylene	P-smohenzene	·· <u>-10</u>
l leamodich (OTOMethane		
1 1 7 Trichloruelliance	1,3,5 Trimethylbenzene	10
Chlorodibromomethane240	1,3,5 Trimethylbenzene 1,2,4 Trimethylbenzene m,p-Dichlorobenzene	
l a a a a Tetrachioroethane		
1 Actane		
	1,2,4,5 Tetramethylbenzene 1,2,4 Trichlorobenzene	418
Nonane	1,2,4 Trichlorobenzene	· · · <u> · · · · · · · · · · · · · · ·</u>
t-n-Ethyltoluene	•	-
n-Decane270	`,	-
-n-Undecane		
SCD45 R3DU3-16	. ·	
/ X >	and the second second	
- tet. 1,400 App 180/pb methylusechlorule 180/pb trickluro 85/pb		
methylanechorale 100/100		
- tuchura 85pp	ple from collection point to be broken. The sample should	laboratory,
During transport of the Sam	to broken. The sample should	be delivere
A 1 - LLIA AF CHETONY MUSIC NOV	~	WILL STEW
by the sample collector or a do	d transfer of the sample duri	ng shipment.
by the sample collector or a defor the receipt, integrity, and SIGNATURE		IIME
SIGNATURE	Ont word 55 H3 10/20	
1. Collected by Collected	Osknow 55H3 10/20	107 /00





Department of the Interior

Heritage Conservation and Recreation Service

National Register of Historic Places; Listing of Historic Properties

New York State Listings:

January 1, 1979 - December 31, 1979

***NOTE: Corrections follow listings

177

NEW YORK—Continued

Leeds vicinity. SALISBURY MANOR, NW of Leeds on NY 145/23, (06-19-79): 79/11/06 079 0002145

Windham. CENTRE PRESBYTERIAN CHURCH, Main and Church Sts. (9-7-79); 79-11-29 079 0005012

kings county ...

Brooklyn. FLATLANDS DUTCH REFORMED CHURCH, Kings Hwy. and E. 40th St. (8-30-78); 79-11-29 079 0005013

monhattan county

New York. IEFFREY'S HOOK LIGHTHOUSE (HUDSON RIVER LIGHTHOUSES THEMATIC RESOURCES), Fort Washington Park, (05-29-79); 79/11/06 079 0002146 monroe county

Rochester. EAST AVENUE HISTORIC DISTRICT, Irregular pattern along East Ava. from Probert St. to Alexander St., (4- 1: 17-79); 79/07/19 079 0001668 classification

montgomery county . Port Plain vicinity. FORT PLAIN CONSERVATION AREA, (11-15-79): 80/ 01/10079 0006378

ार्भ किंग - nassau county

Cove Neck. ROOSEVELT, JAMES ALFRED. ESTATE, 360 Cove Neck Rd., (5-17-79); 79/

07/19 079 0001889 Glen Cova. WOOLWORTH ESTATE, 77 Crescent Beach Rd., (5-17-79); 79/07/19 079 0001690 *.

Lattingtown. ALDRED, JOHN E., ESTATE (ORMSTON), Lattingtown Rd. (8-3-79); 79-

11-13 079 0004374 Millneck. DODGE., Frost Mill Rd., [7-22-79]; 79/11/01079 0003312

Muttontown vicinity. MOORE, BENJAMIN. ESTATE, N of Muttontown on NY 25A, (5-. 14-79): 79/07/19 079 0001691 Oysler Bay. ADAM-DERBY HOUSE, 168

Lexington Ave., (5-17-79); 79/07/19 079 0001892 .

Oyster Bay vicinity. PLANTING FIELDS ... ARBORETUM, W of Oyster Bay on Planting Fields Rd., (1-23-79); 80/01/10079 0006775

new york county New York. DUNBAR APARTMENTS. Bounded by 7th and 8th Aves. and W. 149th and 150th Sta., (3-29-79); 79/07/16 079 0001084

New York. FLATIRON BUILDING, 5th Ave. and Broadway St. (11-20-79): 80/01/10079 0006379

New York. GREENWICH VILLAGE HISTORIC DISTRICT, Roughly bounded by W. 13th St., St. Luke's Pl., University Pl., and Washington St., (08-19-79); 79/11/

06 079 000:147 New York. NORWOOD. ANDREW S. HOUSE CF. 241 W. 14th St., (7-8-79); 79/ 11/01079 0003313

New York. OTTENDORFER PUBLIC LIBRARY AND STUYVESANT POLYCLINIC HOSPITAL 135 and 137 2nd Ave., (7-22-79); 79/11/01079 0003314

oneida county Boonville. BOONVILLE HISTORIC DISTRICT, Schuyler, Post, W. Main and Summit Sts. (11-16-79); 80/01/10079 0006380

Orlakany Pails. FIRST CONGREGATION FREB CHURCH, 177 N. Main St., (1-19-79); 011/80/ 079 0006776

Oriskany Falls. FIRST CONGREGATIONAL, FREE CHURCH, 177 N. Main St., (1/19/ 79); 79/07/18 079 0000185

enondaga county Delphi Falls. DELPHI BAPTIST CHURCH Oran-Delphi Rd, (8-24-79); 79-11-29 079

Skansateles. SMITH, REUEL E., HOUSE, 28 W. Lake St. (7-27-79) HABS; 79-11-13 079 0004375

Skaneateles vicinity. COMMUNITY PLACE. S of Skanesteles at 725 Sheldon Rd., (4-20-79); 79/07/19 079 0001693 Syracusa. HAWLEY-GREEN STREET

HISTORIC DISTRICT, Green St. and ... Hawley Ave., (3-2-78); 79/07/19 079 0001694

Syracuse, KING, POLASKI, HOUSE, 2270 Valley Dr., (4-20-79): 79/67/19 079 0001695

ontario county

Clifton Springs. CLIFTON SPRINGS SANITARIUM AND POSTER COTTAGE, 11 and 9 E. Main St., (4-6-79); 79/07/18 079 0001085 Street Hall Broke Street La

orange county

Vails Gate. EDMONSTON HOUSE, NY 94,: -- (3-2-79); 79/07/13 079 0000002

orleans county

Albion. ORLEANS COUNTY COURTHOUSE HISTORIC DISTRICT, Courthouse Sq. and environs, (8-31-79); 79-11-29 079 0005015

oswego county

Pulaski vicinity. SELKIRK LIGHTHOUSE, W of Pulaski on Lake Rd., (3-30-79); 79/07/16 079 0001088

putnam county

Brewster. OLD BREWSTER TOWN HALL Main St. (7-24-79); 79-11-13 079 0004376

queens county

New York. CORNELL FARMHOUSE, 73-50 Little Neck Pkwy. (7-24-79); 79-11-13 079 0004377

rensselaer county '

MATHEWS, DAVID, HOUSE, (9-10-79); 79-11-29 079 0005018

Rensselaer. BEVERWYCK MANOR (ST. ANTHONY-ON-HUDSON SEMINARY). Washington Ave, (6-3-79) HABS; 79-11-13 079 0004378

Rensselaer. PATROON AGENT'S HOUSE AND OFFICE, 15 Forbes Ave, (8-3-79); 79-11-13 029 0004329

Troy. ST. PAUL'S EPISCOPAL CHURCH COMPLEX, 58 3rd St. (9-7-79); 79-11-29 079 0005013

Troy. WILLARD, EMMA, SCHOOL, Pawling and Elmgrove Aves. (8-30-79); 79-11-29 079 0005018

, rockland county

Stony Point STONY POINT LIGHTHOUSE (HUDSON RIVER LIGHTHOUSES THEMATIC RESOURCES), Stony Point Battlefield, (05-29-79); 79/11/06 079 0002148

saratoga county

Saratoga Springs. BROADWAY HISTORIC DITRICT, Broadway, Washington and Rolk Sts. (9-12-79); 79-11-29 079 0005019

schenectady county Niskayuna. NISKAYUNA REFORMED CHURCH, 3041 Troy-Schenectady Rd., [4-18-79]; 79/07/19 079 0001698

schoharie county

Gallupville. GALLUPVILLE HOUSE, Main St. (9-7-79); 79-11-30 079 0005020 Schoharie vicinity. BECKER STONE HOUSE, E of Schoharis on Murphy Rd. (11-20-79); 80/01/10079 0006383

Schoharie vicinity. BECKER-WESTFALL HOUSE, E of Schoharie on NY 443, (11-20-79); 80/01/10079 0006384

st. lowrence county

Potedem. MARKET STREET HISTORIC DISTRICT. Market and Raymond Sia, [11-16-79); 80/01/10079 0006381

West Stockholm. WEST STOCKHOLM
HISTORIC DISTRICT, W. Stockholm and . Livingston Rds, (11-20-79); 80/01/10079 0006382

suffolk county

Commack. CARLL. MARION, PARM, 475 Commack Rd., (0-28-79); 79/11/01079 Ó003315 .

Lloyd Harbor. FIELD, MARSHALL'III. ESTATE, Lloyd Herbor Rd., (4-30-79); 79/ 07/19 079 0001897

Montauk vicinity. H.M.S. CULLODEN SHIPWRECK SITE, N of Montauk, (3-5-79); 79/07/13 079 0000603

sullivan county

Grahamsville. GRAHAMSVILLE HISTORIC DISTRICT, NY 55, (12:6-79); 60/01/10079 0006385

tompkins county

Ithaca. ITHACA POTTERY SITE, (7-17-79): 79/11/01079 0003316

Ithaca. STRAND THEATRE, 310 E. State SL, [2-22-79]; 79/07/13 079 0000604 Ithaca vicinity. ENFIELD FALLS MILL AND

MILLER'S HOUSE, SW of Ithace in Robert H. Treman State Park, (2/5/79); 79/07/16 079 0000188

Ithece vicinity. ENFIELD FALLS MILLS AND MILLER'S HOUSE, SW of lihaca in Robert H. Treman State Park, (2-5-79); 80/ 01/10079 0006777

ulster county

Esopus. ESOPUS MEADOWS LIGHTHOUSE (HUDSON RIVER LIGHTHOUSES . THEMATIC RESOURCES). Spans Hudson River, [05-29-79]; 79/11/06 079 0002149 Kingston. COMMUNITY THEATER

(BROADWAY THEATER), 601 Broadway. (7-22-79); 79/11/01079 0003317

Kingston. KINGSTON/RONDOUT 2 LIGHTHOUSE (HUDSON RIVER LIGHTHOUSES THEMATIC RESOURCES, Hudson River and Rondout Creek, (05-29-79): 79/11/06 079 0002150 Kingston. RONDOUT-WEST STRAND

HISTORIC DISTRICT, U.S. Sw. (8-24-79); 1 79-11-30 079 0005021

Saugerties. SAUGERTIES LIGHTHOUSE (HUDSON RIVER LIGHTHOUSES THEMATIC RESOURCES), Hudson River at Esopus Creek, (05-29-79): 79/11/08 079 0002151

Woodstock vicinity. BYRDCLIFFE. HISTORIC DISTRICT, W of Woodstock at Glasco Tpke. and Larks Nest Rd., (5-7-79); 79/07/19 079 0001698



Part II

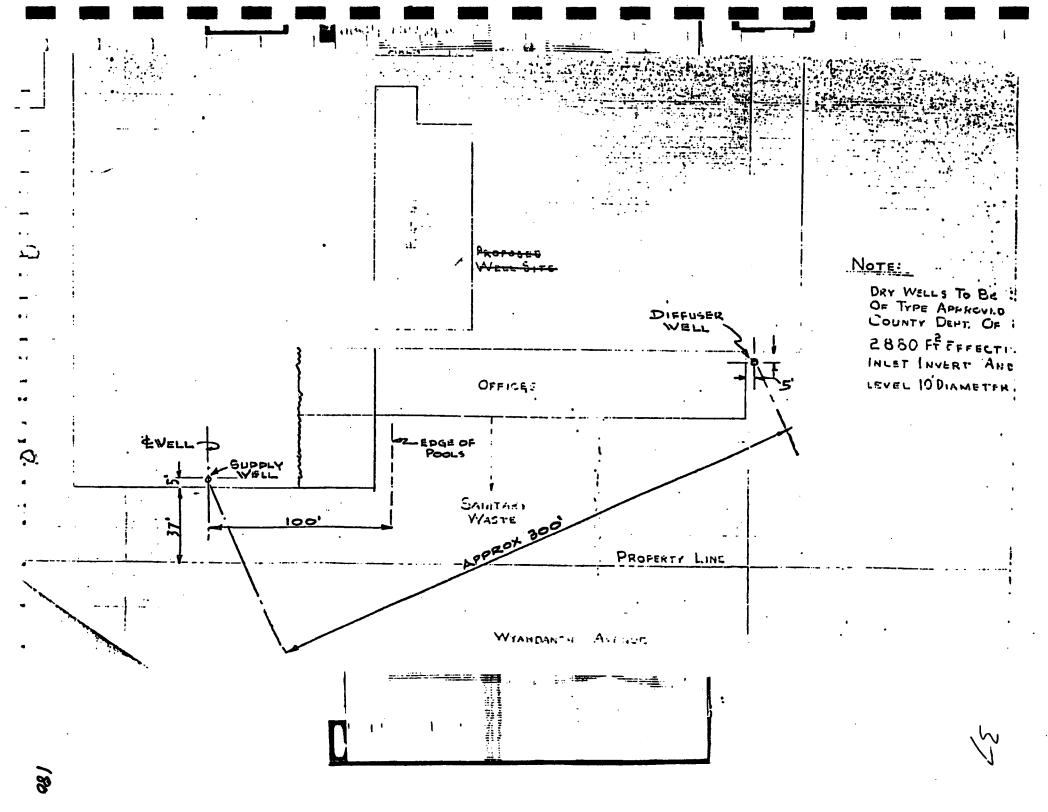
Department of the Interior

Heritage Conservation and Recreation Service

National Register of Historic Places; Annual Listing of Historic Properties

New York State National Register Listing: 1980





Historic Diskin Di-31-80] Federal Register 10650 New York, Roosevelt. Sara Delano, Memorial House, 47 and 49 E. 65th St. (3-28-80) New York, St. Andrew's Episcopal Church. 2067 5th Ave. (3-18-60). New York, St. Augustine's Chapel, 290 Henry St. (5-5-80) New York. St. Bartholomew's Church and *Community House. 109 E. 50th St. (4-16-80) New York, St. Jean Boptiste Church and Rectory, 1067-1071 Lexington Ave. (4-23-80) New York, St. Peter's Roman Catholic Church, 22 Barclay St. (4-23-80) New York, St. Thomas Church and Parish House, 1-3 W. 53rd St. (4-9-80) New York, Schings! House, 351 Riverside Dr. (4-23-80)New York. Scribner Building. 153-157 5th Ave. (5-8-80) New York, Sea and Land Church, 81 Henry St. (4-9-80) New York, 123-123 Town Hall, 113-123 W. 43rd St. (4-23-80) New York, Union Theological Seminary. W. 120th St. and Broadway (4-23-80) New York. University Club. 1 W. 54th St. (4-16-80) New York, Woldo, Gertrude Rhinelander, Masion, 867 Madison Ave. (5-6-80) New York, West End Collegiate Church and Collegiate School, W. End Ave. and W. 77th St. (5-6-80) New York. West 76th Street Historic District. W. 76th St. (7-24-80) ... Niogara County Niugara Falls, Williams, Johann, Farm. 10031 Cayuga Dr. (1-10-80) North Tonswands, Riviera Theatre, 27 Webster St. (3-20-80) Onondaga County Skaneateles vicinity. Kelsey-Davey Form. NE of Skanesteles on Old Seneca Tpke. [4-16-Syrucuse, Montgomery Street-Columbus Circle Historic District. E. Jellerson. E. Onondaga, Montgomery and E. Fayette Sts. (2-19-80) Syracuse, Syracuse University Comstock Tract Buildings, Syracuse University campus (7-22-80) Ontario County Victor, Osborne House, 146 Maple Ave. [7-11-80] Orange County Chester, Yelverton Inn and Store. 112-116 Main St. (3-28-80)

Gardnertown, Gardner, Silas, House, 1141 Union Ave. (3-28-80)

Port Jervin, Erie Railroad Station. Jersey Ave. and Fowler St. (4-11-80)

Tuxedo Park, Tuxedo Park, Tuxedo Lake and environs (3-13-80)

Orleans County

Gifford-Walker Form. Reference-see Genesee County.

Oswego County

Oswegu, Sheldon Hall. Washington Blvd. (5-13-80)

lontylimery, Northermany Yillaye Multiple KEWACEA [11-21-BD]

Goshan Churcy Park Italian a District

Oneonta, Forth S.R (4-20-80)

Money, The Gaure [7-10-20]

وبصحوب سن وصهورت بي Vol. 46, No. 22 / Tuesday, February

Olseyo County '

Onconta, Walnut Street Historic District. Pord Ave., Walnut, Dietz, Elm and Maple Sts. (7-30-80) Otego vicinity, Otsdawa Creek Site (7-22-80) Unadilla, Mann, Andrew, Inn. 33 Riverside

Rd. (1-10-80) Unadilla vicinity, Russ Johnson Site (7-22-80)

Putnom County

Curmel, Reed Memorial Library, 2 Brewster Avc. (3-28-80)

Carrison vicinity, DeRham Farm, N of Garrison on Indian Brook Rd. (3-28-80)

Queens County

Elmhurst, Reformed Church of Newtown Complex, 8515 Broadway (4-23-80) Jamaica. St. Monica's Church, 9420 160th St. (4-9-80)

New York, First Reformed Church, 153 Jamaica Ave. (4-16-80)

Queens, Office of the Register (Jumaico Arts Center), 161-04 Jamaica Ave. (1-3-80)

Rensselaer County

Hoosick Falls, Estabrook Octogon House, 8 River St. (2-8-80)
Hospick Falls Hospick Falls H.D. [12-3-80]
Historian County

Staten Island, Edgewater Village Hall and Toppen Park, Bounded by Wright, Water. Buy and Canal Sts. (5-19-80)

Staten Island, Elliott, Dr. Samuel MacKenzic. House, 69 Delufield Pl. (3-28-80)

Staten Island, *Garibaldi Memoriul*, 420 Tompkins Ave. (4-17-80)

Staten Island, Miller Army Air Field Historic District. New Dorp Lane (4-11-80) Staten Island. Moore-McMillen House. 3531

Richmond Rd. (4-23-80) Staten Island, Seguine House, 440 Seguine

Att. (5-6-80) STITICA ISSAM, St. Pratis Charles Rectacy St. Lawrence County Lu-21-80)

Lisbon, Lisbon Town Hall, Church and Main Sis. (9-1-80)
Schoharic County

Schoharie, Westheimer Site (7-22-80)

Sentra County, Thank Site (11-28-20) Sentra Cover than 13 at La-21-23 Seneca Falls, Biommer, America, House (Women's Rights Historic Sites Thematic

Resources), 53 E. Bayard St. (8-29-80) Senera Falls, Stanton, Elizabeth Cody. House

(Women's Rights Historic Sites Thematic Resources), 32 Washington St. (previously listed in the National Register (10-15-66) Seneca Falls, Wesleyan Methodist Church

(Women's Rights Historic Sites Thematic Resources). 126 Full St. (R-29-80)

Waterkoo, Hunt House (Women's Rights Historic Sites Thematic Resources). 401 E. Main St. (8-29-80)

Waterioo, Al Clintock House (Women's . Rights Historic Sites Thematic Resources). 14 E. Williams St. (6-29-80)

Steuben County

Addison, Addison Village Hall. Tuscarora and South Sts. (4-23-89)

Hornell, Hornell Armory, 100 Seneca St. [5-0-

Riverside, Erwin, William, House, 508 Water St. (4-11-80)

RHaims Pleasant Valley Wine

gicenestady general Gledaic izalby Mar [11-3-92]

Suffolk County

3, 1981 / Notices

Mastic Beach, Old Mastic House (William Floyd Estate), 20 Washington Ave. (10-15-

Bellook Village of Bellocar Mythole

Outin Change Combant Hasterac District [12-3 to

Rocky Point vicinity, Radio Central Complex. S of Rocky Point on Rocky Point-Yaphank Rd. (6-27-80)

Southampton, Breese, James L. House, 155 Hill St. (4-18-80)

Sullivan County

Bloomingburg, Bloomingburgh Reformed Protestant Dutch Church, NY 17M (1-10-

ROLLINGA COLWTY Tonipkins County

Ithaca, Lienroc, 100 Cornell Ave. (4-16-80)

Ulater County Chestol at [10-21-8] Kingston, Ponckhockie Union Chapel, 91 Abruyn St. (4-23-80)

Kingsion and vicinity, Kingston-Port Ewen Suspension Bridge, U.S. 9W (4-30-80)

Warren County

Silver Bay, Silver Bay Association Complex. NY 9N (3-20-80)

Washington County

Greenwich vicinity. Coffin Site (7-22-80).

Wayne County

Sodus Point, Customs House. Sentell St. (5-6-80)

Westchester County

Bronxville, Lawrence Park Historic District. roughly bounded by Side Hill, Prescott. Kensington, Garden and Chestnut Aves. Maidens Lane, Valley and Pondfield Rds. (1-23-80)

Bronxville, Masterton-Dusenberry House, 90 White Plains Rd. (4-16-80)

Hawthorne vicinity, Hommond House, S of Hawthorne on Grasslands Rd. (5-6-60) Millwood, Sarles' Tuvern, NY 100 (12-31-79) New Rochelle, Davenpart House 157 Davenport Rd. (4-30-80)

Ossining, Brandreth Pil! Factory. Water St. [1-10-00]

Peckskill, Dryp Hill High School. Ringgold_St [12-31-34]

Sulum Center. North Salem Town Hall, Titicus Rd. (9-4-80)

Tarrytown, Music Holl. 11 Main St. (2-12-80) White Plains, White Plains Armory, 35 S. Broadway (4-16-80)

Wyoming County Anenos + Athea Ra local [11-17-80] Warshov, Trinty Church, W. Bullalo St. (3-18-80)

Warsaw, Warsaw Academy, 73 S. Main St. (1-3-80)

NORTH CAROLINA

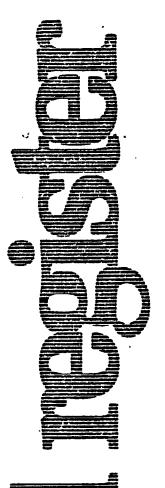
Aiumance County

Burlington, Southern Railway Passenger Station, Main and Webb Sts. (5-23-80) HAER

Buncombe County

Asheville, Asheville Historic and Architectural Multiple Resource Area. This area includes: Downtown Asheville Historic District, roughly bounded by 1240. Valley St., Hilliard Ave., and Broad Ave.;

. Rye, flowload Amusement Park [7-4-80]



Tuesday February 2, 1982

Part III

Department of the Interior

National Park Service

National Register of Historic Places; Annual Listing of Historic Properties

New york State National-Register Listings: 1981

766 LEAD BENZOATE

will explode it; when heated, emits highly toxic fumes of lead.

LEAD BENZOATE. White crystals. Pb($C_1H_5O_2$)₂· H_2O , mw: 467.5, mp: $-H_2O$ @ 100°. THR = See lead compounds and lead.

LEAD-m-BORATE. White powder. Pb(BO₂)₂·H₂O, mw: 310.87, d: 5.598 (anhydrous).

THR = See lead and boron compounds. A poison.

LEAD BROMATE. Monoclinic crystals. Pb(BrO₃)₂· H₂O, mw: 481.06, mp: 180° (decomp), d: 5.53. THR = See lead compounds and bromates. A poison.

LEAD BUTYRATE. C₈H₁₄O₄Pb, mw: 381.4. THR = A poison. See also lead compounds.

LEAD CAPRATE. Pb(C₁₀H₁₉O₂)₂, mw: 549.71, mp: 103°-104°.

THR = See lead compounds and lead.

LEAD CAPROATE. Crystals. Pb(C₆H₁₁O₂)₂, mw: 437.51, mp: 73°-74°.

THR = See lead compounds and lead.

LEAD CAPRYLATE. White leaf. Pb(C₈H₁₅O₂)₂, mw: 493.61, mp: 83.5°-84.5°.

THR = See lead compounds and lead.

LEAD CARBONATE. Syn: cerussite. White powdery crystals. PbCO₃, mw: 267.22, mp: decomp @ 315°, d: 6.61.

THR = An exper (\pm) carc. [3, 9] A poison. Violent reaction with F_2 . [19] See lead compounds and lead.

LEAD CARBONATE, BASIC. Syns: white lead, hydrocerussite. White powder, amorphous. 2PbCO₃Pb(OH)₂, mw: 775.67, mp: decomp @ 400°,

THR = See lead compounds and lead. A poison. Violent reaction with F_2 . [19]

LEAD CEROTATE. White crystals. Pb(C₂₆H₅₁O₂)₂, mw: 998.55, mp: 113.5°.

THR = See lead compounds and lead.

d: 6.14.

LEAD CHLORATE. Monoclinic white crystals.

Pb(ClO₃)₂, mw: 374.12, mp: decomp. d: 3.89.

THR = See lead compounds, chlorates and lead. A poison. Reacts violently with S. [19]

LEAD CHLORIDE. Syn: cotunnite. White crystals, PbCl₂, mw: 278.1, mp: 501°, bp: 954°, d: 5.85, vap. press: 1 mm @ 547°.

THR = See lead compounds. A poison. An exper teratogen. [3]

LEAD CHLORITE. Monoclinic yellow crystals.

Pb(ClO₂)₂, mw: 342.12, mp: explodes @ 126°.

THR = See lead compounds and chlorites. Reacts violently with S. [19]

LEAD CHROMATE. Syns: crocoite, chrome yellow. Yellow crystals. PbCrO₄, mw: 323.22, mp: 844°, bp: decomp, d: 6.3.

Acute tox data: ip LD₅₀ (guinea pig) = 400 mg/kg. [3] THR = HIGH via ip route. An exper (±) neo and carc. [3, 6] Reacts violently with ferric ferrocyanide. [19]

LEAD CHROMATE, BASIC. Red. amorphous or crystals. Pb₂(OH)₂ · CrO₄, mw: 564.45, mp: 920°.

THR = See lead and chromium compounds. An exper neo. [3]

LEAD CITRATE. White crystalline powder. Pb₃(C₆H₅O₇)₂ · 3H₂O, mw: 1053.88. THR = See lead compounds.

LEAD COMPOUNDS.

THR = Poisons. Lead poisoning is one of the commonest of occupational diseases. The presence of lead-bearing materials or lead compounds in an industrial plant does not necessarily result in exposure on the part of the workman. The lead must be in such form, and so distributed, as to gain entrance into the body or tissues of the workman in measurable quantity, otherwise no exposure can be said to exist. Some are exper (+) carc of the lungs and kidneys. [14, 23, 9, 95]

Mode of entry into body:

1. By inhal of the dusts, fumes, mists or vapors. (Common air contaminants.)

2. By ingestion of lead compounds trapped in the upper respiratory tract or introduced into the mouth on food, tobacco, fingers or other objects.

3. Through the skin; this route is of special importance in the case of organic compounds of lead, as lead tetraethyl. In the case of the inorganic forms of lead, this route is of no practical importance.

When lead is ingested, much of it passes through the body unabsorbed, and is eliminated in the feces. They greater portion of the lead that is absorbed is caught by the liver and excreted, in part, in the bile. For this reason, larger amounts of lead are necessary to cause poisoning if absorption is by this route, and a longer period of exposure is usually necessary to produce symptoms. On the other hand, upon inhal, absorption takes place easily from the respiratory tract and symptoms tend to develop more quickly. From the point of view of industrial poisoning, inhal of lead is much more important than is ingestion.

Lead is a cumulative poison. Increasing amounts build up in the body and eventually a point is reached where symptoms and disability occur. Lead produces a brittleness of the red blood cells so that they hemolyze with but slight trauma; the hemoglobin is not affected. Due to their increased fragility, the red cells

are destroyed more rapidly in the body than normally, producing an anemia which is rarely severe. The loss of circulating red cells stimulates the production of new young cells which, on entering the blood stream, are acted upon by the circulating lead, with resultant coagulation of their basophilic material. These cells after suitable staining, are recognized as "stippled cells." As regards the effect of lead on the white blood cells, there is no uniformity of opinion. In addition to its effect on the red cells of the blood, lead produces a damaging effect on the organs or tissues with which it comes in contact. No specific or characteristic lesion is produced. Autopsies of deaths attributed to lead poisoning and experimental work on animals, have shown pathological lesions of the kidneys, liver, male gonads, nervous system, blood vessels and other tissues. None of these changes, however, have been found consistently.

In cases of lead poisoning, the amount of lead found in the blood is frequently in excess of 0.07 mg per 100 cc of whole blood. The urinary lead excretion generally exceeds 0.1 mg per liter of urine.

The toxicity of the various lead compounds appears to depend upon several factors: (1) the sol of the compound in the body fluids; (2) the fineness of the particles of the compound; sol is greater, of course, in proportion to the fineness of the particles; (3) conditions under which the compound is being used; where a lead compound is used as a powder; contamination of the atmosphere will be much less where the powder is kept damp. Of the various lead compounds, the carbonate, the monoxide and sulfate are considered to be more toxic than metallic lead or other lead compounds. Lead arsenate is very toxic, due to the presence of the arsenic radical.

Signs and Symptoms: Industrial lead poisoning commonly occurs following prolonged exposure to lead or its compounds. The common clinical types of lead poisoning may be classified according to their clinical picture as (a) alimentary; (b) neuromotor; and (c) encephalic. Some cases may show a combination of clinical types. The alimentary type occurs most frequently, and is characterized by abdominal discomfort or pain: Severe cases may present actual colic. Other complaints are constipation and/or diarrhea, loss of appetite, metallic taste, nausea and vomiting, lassitude, insomnia, weakness, joint and muscle pains, irritability, headache and dizziness. Pallor, lead line on the gums, pyorrhea, loss of weight, abdominal tenderness, basophilic stippling, anemia, slight albuminuria, increased urinary excretion, and an increase in the lead content of the whole blood, are signs which may accompany the above symptoms.

In the neuromuscular type, the chief complaint is weakness, frequently of the extensor muscles of the wrist and hand, unilateral or bilateral. Other muscle groups which are subject to constant use may be affected. Gastroenteric symptoms are usually present, but are not as severe as in the alimentary type of poisoning. Joint and muscle pains are likely to be more severe. Headache, dizziness and insomnia are frequently prominent. True paralysis is uncommon, and usually is the result of prolonged exposure.

Lead encephalopathy is the most severe but the rarest manifestation of lead poisoning. In the industrial worker it follows rapid and heavy lead absorption. Organic lead compounds, such as tetraethyl lead, are absorbed rapidly through the skin as well as through the lungs, and are selectively absorbed by the CNS. The clinical picture in these cases is usually an encephalopathy. With inorganic lead compounds, comparable conc in the CNS are reached only when the workplace is heavily contaminated with vapor, fume and dust. Encephalopathy begins abruptly, and is characterized by signs of cerebral and meningeal involvement. There is usually stupor, progressing to coma, with or without convulsion, and often terminating in death. Excitation, confusion and mania are less common. In milder cases of short duration, there may be symptoms of headache, dizziness, somnolence and insomnia. The cerebrospinal pressure may be increased. See also specific compound.

Diagnosis: A diagnosis of lead poisoning should not be made on the basis of any single clinical or laboratory finding. There must be a history of significant exposure, signs, and symptoms (as described above) compatible with the diagnosis, and confirmatory laboratory tests. Increase of stippled red blood cells, mild anemia, and elevated lead in blood and urine, i.e., more than 0.07 mg/100 ml blood and similar values per liter of urine. An increase of coproporphyrins and certain amino acids in urine may be present. Diagnostic mobilization of lead with calcium EDTA may be useful in questionable cases.

Treatment of Lead Poisoning: It has been found that the chelating agent, calcium ethylenediaminetetracetate, and related compounds are highly efficacious in removing absorbed lead from the tissues of the body. (The therapeutic agents of this group are also known as versene, versenate, edathamil and Ca EDTA. Ca EDTA is effective only when administered intravenously. Various dosage schedules have been proposed. An effective regime is 3-6 g of Na Ca EDTA in 300 cc-500 cc of 5% glucose by intravenous drip over a period of 3-8 hrs. Treatment may

850 NICKEL CHLOROPLATINATE

THR = See nickel compounds, palladium compounds and chlorides.

NICKEL CHLOROPLATINATE. Trigonal crystals. NiPtCl₆ · 6H₂O, mw: 574.76, d: 2.798.

THR = See platinum compounds, nickel compounds and chlorides.

NICKEL COBALT SULFATE. Reddish-brown crystalline mass. NiSO₄ · CoSO₄ · 14H₂O, mw: 561.99.

THR = See nickel compounds, cobalt compounds and sulfates.

NICKEL COMPOUNDS.

THR = Nickel and most salts of nickel are generally considered not to cause systemic poisoning. Ingestion of large doses of nickel as nickel compounds (1-3 mg/kg) has been shown to cause intestinal disorders, convulsion's and asphyxia in dogs. Nickel has been found in the hair of persons exposed to nickel oxide dust. Many Ni compounds are exper carc and some are human carc via inhal route. [14, 2, 23, 95, 71] All airborn Ni contaminating dusts are regarded as carc via inhal. [71] Use personal hygiene to minimize worker contact with Ni; eliminate wound contamination by Ni. The most common effect resulting from exposure to nickel compounds is the development of the "nickel itch." This form of dermatitis occurs chiefly in persons doing nickel-plating. There is marked variation in individual susceptability to the dermatitis. It occurs more frequently under conditions of high temp. and humidity, when the skin is moist, and chiefly affects the hands and arms. Nickel carbonyl is a (+) carc and a high irr to the lungs and also can produce asphyxia by decomp with the formation of carbon monoxide. These compounds are common air contaminants.

NICKEL CYANIDE. Apple-green plates or powder. Ni(CN)₂, mw: 110.8.

THR = A poison. See cyanides and nickel compounds. Reacts violently with Mg. [19]

NICKEL DI-pi-CYCLOPENTADIENYL. Syn: nickel-ocene. Ni · C₁₀H₁₀, mw: 188.9.

Acute tox data: Oral LD₅₀ (rat) = 490 mg/kg; ip LD₅₀ (rat) = 50 mg/kg; im LD₅₀ (mouse) = 150 mg/kg. [\mathcal{J}]

THR = HIGH via oral, ip and im routes. See also nickel compounds. An exper (+) carc [23, 3, 6] via im route. [103, 118]

NICKEL DIFLUORIDE. See nickel fluoride.

NICKEL DITHIONATE. Green triclinic crystals.

NiS₂O₆ · 6H₂O, mw: 326.92, mp: decomp, d: 1.908.

THR = See nickel compounds.

Disaster Hazard: Dangerous; see sulfates.

NICKEL FERRITE. See nickel compounds.

NICKEL FERROCYANIDE. Green-white crystals. Ni₂Fe(CN)₆ · xH₂O, d: 1.892.

THR = See ferrocyanides and nickel compounds.

NICKEL FLUOBORATE.

Acute tox data: Oral LD_{LO} (rat) = 500 mg/kg; inf LC_{LO} (mouse) = 530 mg/m³ for 10 min. [3]

THR = HIGH via oral and inhal routes. See al fluorides, boron and nickel compounds.

NICKEL FLUOGALLATE. Pale green crystals. [Ni(H₂O)₆] [GaF₅H₂O], mw: 349.52, mp: -5H₂O 110°, d: 2.45.

THR = See fluogallates and nickel compounds.

NICKEL FLUORIDE. Syn: nickel difluoride. Grecrystals, slightly water-sol, decomp by boiling water NiF₂, mw: 96.69, d: 4.63.

Acute tox data: iv LD₅₀ (mouse) = 130 mg/kg. [3, 16] THR = HIGH via iv route. See also fluorides at nickel compounds. Reacts violently with K. [19]

NICKEL FLUOSILICATE. NiSiF₆, mw: 200.8.

Acute tox data: Oral LD_{LO} (rat) = 100 mg/kg. [3] THR = HIGH via oral route. See also fluosilicat and nickel compounds.

NICKEL FORMATE. Green crystals. Ni(CHO₂)₂· 2H₂O, mw: 184.76, mp: decomp, d: 2.154.

THR = See nickel compounds.

Disaster Hazard: Slight; when heated, emits acr fumes.

NICKEL GALLIUM ALLOY.

THR = An exper carc to rats via imp_route. [103]

NICKEL HEXAMMINE CHLORATE

 $Ni(NH_3)_6(ClO_3)_2$, mw: 327.8.

THR = See nickel compounds. Detonates on impact [19]

NICKEL HEXAMMINE PERCHLORATE.

 $Ni(NH_3)_6(ClO_4)_2$, mw: 359.8.

THR = See nickel compounds. Detonates who struck. [19]

NICKEL HYDROXIDE. See nickelous hydroxide.

NICKEL HYPOPHOSPHITE. Green crystals.

Ni(H₂PO₂)₂ · 6H₂O, mw: 296.78, mp: explodes (100°, d: 1.82 @ 19.8°.

THR = See nickel compounds. See phosphine. Li erates PH₃ @ 100°. [19]

Explosion Hazard: Mod, when exposed to heat.

Disaster Hazard: Dangerous; may explode @ 100 Keep away from heat and open flame.

NICKELIC HYDROXIDE. See nickelous hydroxide

NICKELIC OXIDE. See nickel peroxide,

NICKEL IODATE. Yellow needles. Ni(1O₃)₂. m: 408.53, d: 5.07.

THR = See nickel compounds and iodates.

892 PERCHLORIC ACID

Disaster Hazard: Dangerous; shock will explode them; when heated, they emit highly toxic fumes of chlorides; they can react with reducing materials. To Fight Fire: Water or foam.

PERCHLORIC ACID. Colorless, furning, unstable liquid. HClO₄, mw: 100.47, mp: -112°, bp: 19° @ 11 mm, d: 1.768 @ 22°.

THR = VERY irr to skin, eyes and mu mem. HIGH via oral and inhal routes.

Fire Hazard: See perchlorates.

Explosion Hazard: See perchlorates. React violently with acetic acid, (acetic acid + acetic anhydride), acetic anhydride, alcohols, (aniline + HCHO). Sb compounds, Bi, cellulose, charcoal, dibutyl sulfoxide, ethyl ether, dimethyl sulfoxide, F₂, (PbO + glycerine), glycolethers, glycols, HI, HCl, H₂, P₂O₅, hypophosphites, ketones, CH₃OH, Nl₃, nitrosophenol, paper, (P₂O₅ + CHCl₃), NaI, steel, sulfoxides, H₂SO₄, SO₃, wood. [19] The anhydrous form can explode spont.

Disaster Hazard: See perchlorates.

PERCHLORIC ACID DIHYDRATE. See perchloric acid (over 72%).

PERCHLORIC ACID, MONOHYDRATE. Syn: hydronium perchlorate. Fairly stable needles. HClO₄: H₂O, mw: 118.48, mp: 50°, bp: explodes @ 110°, d: 1.88, d. liq: 1.776 @ 50°.

THR = See perchloric acid, sulfuric acid, and perchlorates

PERCHLORIC ACID (NOT OVER 72%). Clear liquid. HClO₄ · 3H₂O, mw: 154.5, mp: −18°, bp: 200°, d: 1.5967 @ 25°/4°.

THR = See perchloric acid.

PERCHLORIC ACID (OVER 72%). Syn: perchloric acid dihydrate. Stable liquid. HClO₄·2H₂O, mw: 136.5, mp: -17.8°, bp: 200°, d: 1.729 @ 25°/4°. THR = See perchloric acid.

PERCHLOROBENZENE. See hexachlorobenzene.

PERCHLOROETHYLENE. Syns: tetrachloroethylene, ethylene tetrachloride, carbon dichloride. Colorless liquid, chloroform-like odor. CCl₂CCl₂, mw: 165.82, mp: -23.35°, bp: 121.20°, flash p: none, d: 1.6311 @ 15°/4°, vap. press: 15.8 mm @ 22°, vap. d: 5.83. Acute tox data; Inhal TC_{LO} (human) = 230 ppm

systemic effects; inhal TC_{LO} (numar) = 230 ppm for 2 hrs \longrightarrow eye effects; inhal TC_{LO} (man) = 600 ppm for $\frac{1}{6}$ hr \longrightarrow CNS effects; oral LD_{LO} (dog) = 4000 mg/kg; sc LD_{LO} (rabbit) = 2000 mg/kg; iv LD_{LO} (dog) = 85 mg/kg. [3]

THR = MOD via inhal, oral, sc, ip and dermal routes. HIGH via iv route. Not corrosive or dangerously reactive, but toxic by inhal, by prolonged or repeated contact with the skin or mu mem, or when ingested by mouth. The liquid can cause injuries to the eyes; however, with proper precautions it can be handled safely. The symptoms of acute intoxication from this material are the result of its effects upon the nervous system.

Exposures to higher conc than 200 ppm cause irr, lachrymation and burning of the eyes and irr of the nose and throat. There may be vomiting. nausea, drowsiness, an attitude of irresponsibility, and even an appearance resembling alcoholic intoxication. This material also acts as an anesthetic. through the inhalation of excessive amounts within a short time. The symptoms of fatal intoxication are irritation of the eyes, nose and throat, then fullness in the head, mental confusion; there may be headache stupefaction, nausea and vomiting. personnel suffering from subacute poisoning may suffer from such symptoms as headache, fatigue, nausea, vomiting, mental confusion and temporary blurring of the vision. This can occur when inadequate ventilation results in concentrations higher than 200 ppm, or where the vapor conc are intermittently high due to faulty handling of the material. or when an individual fails to take adequate precautionary measures.

This material can cause dermatitis, particularly after repeated or prolonged contact with the skin. The dermatitis is preceded by a reddening and burning and more rarely, a blistering of the skin. In any event, the skin becomes rough and dry, due largely to the removal of skin oils by material. The skin then cracks easily and is readily susceptible to infection (Section 9). Upon ingestion it causes irr of the gastrointestinal tract, which, in turn, causes nausea, vomiting, diarrhea and bloody stools. However, such effects are usually less severe than the effects of swallowing similar amounts of other chlorinated hydrocarbons.

It may be handled in the presence or absence of air, water, and light with any of the common construction materials at temp. up to 140°C. This material is extremely stable and resists hydrolysis. A common air contaminant. Reacts violently with Ba, Be, Li. [19]

Disaster Hazard: Dangerous; when heated to decomp. it emits high tox fumes of chlorides.

PERCHLOROMETHYL MERCAPTAN. Syn: thio-carbonyl tetrachloride, trichloromethane sulfonyl chloride. Yellow oily liquid. CHSCl₃, mw: 151.4, bp: slight decomp @ 149°, d: 1.700 @ 20°, vap. d: 6.414. Acute tox data: Inhal TC_{LO} (human) = 45 ppm → eye effects; inhal LC_{LO} (human) = 483 ppm for ½

TRICHLOROMETHYL PERCHLORATE 1045

RICHLOROETHYLENE. Syns: ethinyl trichloride, ethylene trichloride. Stable, colorless, heavy, mobile liquid, chloroform-like odor. CHClCCl₂, mw: 131.40, mp: -73°, bp: 87.1°, fp: -86.8°, d: 1.45560 @ 25°/4°, autoign. temp.: 788°F; vap. press: 100 mm @ 32°, vap. d: 4.53, flash p\ none, lel = 12.5%, uel = 90%.

Acute tox data: Oral LD_{LO} (human) = 857 mg/kg; 160 ppm for 83 min \longrightarrow human CNS effects; 110 ppm for 8 hrs \longrightarrow inhal human irr effects; oral LD₅₀ (rat) = 4920 mg/kg; inhal LC_{LO} (rat) = 8000 ppm for 4 hrs; ip LD₅₀ (dog) = 1900 mg/kg; iv LD_{LO} (dog) = 150 mg/kg. [3]

THR = HIGH via iv; MOD via ip, inhal, oral routes. An exper (S) carc. [3, 13] Inhal of high conc causes narcosis and anesthesia. A form of addiction has been observed in exposed workers. Prolonged inhal of mod conc causes headache and drowsiness. Fatalities following severe, acute exposure have been attributed to ventricular fibrillation resulting in cardiac failure. There is damage to liver and other organs from chronic exposure. Cases have been reported but are of questionable validity. Determination of the metabolites trichloracetic acid and trichloroethanol in urine reflects the absorption of trichloroethylene. A food additive permitted in food for human consumption. [109] A common air contaminant.

Fire Hazard: Low, when exposed to heat or flame. High cone of trichloroethylene vapor in high-temp. air can be made to burn mildly if plied with a strong flame. Though such a condition is difficult to produce, flames or arcs should not be used in closed equipment which contains any solvent residue or vapor. Can react violently with Al, Ba, N₂O₄, Li, Mg, liquid O₂, O₂, KOH, KNO₃, Na, NaOH, Ti. [19]

Spont Heating: No.

Disaster Hazard: Dangerous; see chlorides.

RICHLOROETHYL SILANE. C₂H₃SiCl₃, mw: 163.5.

THR = Reacts violently with water. [19]

GeCl₁F, mw: 197.97, mp: -49°, bp: 37.5°.

THR = See fluorides, germanium compounds and chlorides.

i, I-TRICHLOROFLUOROETHANE. C₂H₂Cl₃F, mw: 151.4.

HR = No data. See fluorides. Violent reaction with Ba. [19]

TRICHLOROGERMANE. Syn: germanium chloroform. Colorless liquid. GeHCl₃, mw: 179.98, mp: -71.0°, bp: 75.2°, d: 1.93 @ 0°C.

THR = See hydrochloric acid and germanium compounds.

TRICHLOROISOCYANURIC ACID. White crystals, chlorine odor, mod sol in water. (ClNCO)₃, mw: 232.5, mp: 225°-230° (decomp).

Acute tox data: Oral LD_{su} (rat) = 700-800 mg/kg.

THR = MOD-HIGH via oral route. Toxicity symptoms include emaciation, lethargy, weakness and delayed death. Autopsy shows inflammation of GI tract, liver discoloration and kidney hyperemia. A powerful oxidizer.

Disaster Hazard: Dangerous; when heated to decomp, emits chloride and carbon monoxide fumes.

1,1,1-TRICHLOROISOPROPYL ALCOHOL. Syns: isopral, 1,1,1-trichloro-2-propanol. Crystals, camphor-like odor, pungent taste, water-sol. C₃H₅Cl₃O, mw: 163.4, mp: 50°, bp: 162°.

Acute tox data: Oral LD₁₀ (rat) = 1000 mg/kg. [3] THR = MOD via oral route. See also chlorinated hydrocarbons, aliphatic.

Disaster Hazard: Dangerous; see chlorides.

TRICHLOROMELAMINE. Syn: TCM. White powder, slightly water-sol. C₃H₃Cl₃N₆, mw: 229.4, autoign. temp.: 320°F.

Acute tox data: Oral LD₅₀ (mice) = 490 mg/kg. [3] THR = HIGH via oral route.

Fire Hazard: Mod, in the pure state, when heated or ignited by spark or flame; reacts vigorously to evolve smoke and heat; reacts with acctone, NH₃, aniline, diphenylamine, turpentine. [19] Vendor can supply directions for handling.

Disaster Hazard: Dangerous; when heated to decomp, emits highly toxic chloride and NO_x fumes.

TRICHLOROMETHANE. See chloroform.

TRICHLOROMETHANE SULFENYL CHLORIDE. See perchloromethyl mercaptan.

TRICHLOROMETHYL CHLOROFORMATE. See diphosgene.

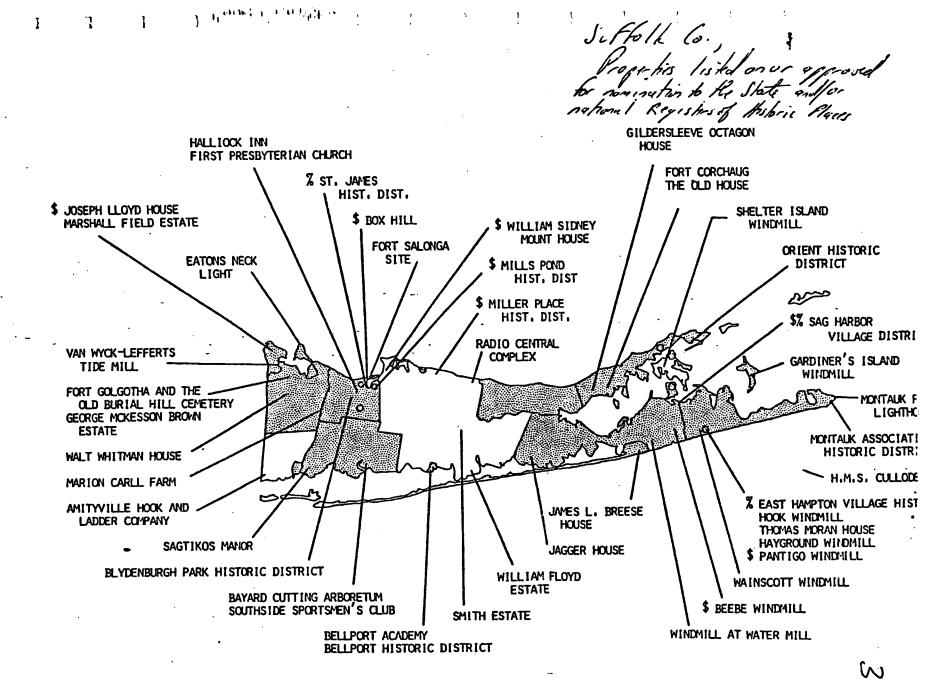
TRICHLOROMETHYL ETHER. A liquid of pungent odor. CHCl₂OCH₂Cl, mw: 149.42, bp: 130°-132°, d: 1,5066 @ 10°.

THR = HIGH irr to skin, eyes and mu mem and via oral, inhal routes. See also ethers.

Disaster Hazard: Dangerous; when heated to decomp, emits highly toxic fumes; will react with water or steam to produce toxic and corrosive fumes.

TRICHLOROMETHYL PERCHLORATE. Cl₃CClO₄, mw: 217.8.

THR = Detonates @ 40°.



1 1

2

Cole. Lincoln County-7 *Fort Stanto Cave. Lincoln County-7 miles west of incoln. *Ghost Ranch, New Arribu County-11 miles

south of Canillon.

Grants Lava Flow, Valencia County-exlends about 25 miles south from Orants. between New Mexico 117 on the east and New Mexico 53 on the west.

Kilbourne Hole. Dona Ana County-26 miles southwest of Las Cruces.

Ship Rock, San Juan County-35 miles west of Farmington.

*To-pac Cave. Lincoln County-20 air miles southeast of Corona.

Valles Culdera, Sandoval and Rio Arriba Counties-30 miles northwest of Santa Fe.

117110 Praymi of Naturali

NEW YORK

Landmus Bear Swamp, Albany County 3 miles south of the village of Wasterland Bergen-Byron Swamp. Genesee County-

between Berren and Hyron.

Big Reed Pond, Auffolks, County-3 miles west of Montauk Pourt.

Deer Lick Nature Sanctuary, Cattaraugus County-4 miles southeast of Gowanda.

Dexter Marsh, Jefferson County-2 miles southwest of the town of Dexter.

*Ellenville Fault-Ice Caves, Ulster County-5 miles southeast of Ellenville.

*Fall Brook Garga Livingston County-1% miles south of Geneseo.

*Fossil Coral Recf. Genesee County-4 miles northwest of La Roy.

Gardiner's Island, Willoth County-100 miles east of New York City, in Block Island Sound off Long Island.

Hart's Woods. Monroe County-10 miles southeest of Rochester.

*Jona Island Marsh, Reckland County-2 miles south of Fort Montgomery.

Ironsides Island, Jefferson and St Lewrence Counties-In St. Lawrence River, 8 miles northeast of town of Alexandria Bay.

Lakeview Marsh and Barrier Beach. Jefferson County-20 miles southwest of Watertown.

*McLean Boys, Tompkins County-14 miles east-southeast of the village of McLean.

Mendon Ponds Park, Monree County-11 nilles south of Rochester.

Mionus River Gorge, Westchester County-2 miles south of Redford.

Montezuma Marshes, Seneca County-Montezuma National Wildlife Refuge, 4 miles · northeast of Seneca Falls.

Moss Island, Herkimer County-within city limits of Little Falls.

Moss Lake Bog, Allegany County-2 miles

southwest of Houghton. *Oak Orchard Creek Marsh, Genesee and Orleans Counties-Iroquois National Wildlife Refuge, 7 miles south-southeast of

Nedina_ *Petrified Gardens, Saraloga County-4 miles west of Saratoga Springs.

*Round Lake, Onondaga County-2 miles northeast of Payetteville.

*Thompson Fond. Dulchess County-20 miles cast of Kingston.

*Zurich Bog, Wayne County-9 miles north of the city of Newark.

HORTH CAROLINA

Green Swamp, Brunswick County-0 miles north of the village of Supply.

Long Hope Creek Spruce Hog. Ashe and Walauga Countres-10 miles north-northeast of licone.

Mount Jefferson State Park, Ashe County-1 mile east of West Jefferson.

Mount Mitchell State Park County-20 miles northeast of Asheville.

Nags Head Woods and Jockey Ridge, Dare County-14 miles northwest of Nags Hend on Bodie Island.

Predmont Heech Natural Area. Wake County-William B. Umstead State Park. 7 miles northwest of Raicigh.

Pilol Mountain Surry County-Plot Mountain State Park, 3 miles south of the town of Pilot Mountain.

*Slone Mountain, Alleghany and Wilkes Countles-Stone Mountain State Park, 9 miles southeast of Sparta.

NORTH DAKOTA

Rush Lake, Caralier County-5 miles south of Hannah.

Sibley Lake, Kidder County-5 miles north of Davison.

Two-Top Mesa and Big Top Mesa, Billings County-14 airline miles northwest of Fairlield.

OHIO

*Arthur B. Williams Memorial Woods. Cuvahoga County-within corporate boundary of Mayfield.

*Blacklick Woods, Fairfield County-1 mile

south of Renoldsburg.
*Brown's Lake Boo, Wayne County-11 miles southwest of Wooster.

*Buzzardroost Rock-Lynx Prarie-The Wilderness, Adams County-75 miles cast of Cincinnati.

Cedar Bog, Chempaign County—7 miles north of Springfield. Clear Fork Gorçe, Ashland County—1 miles

south of Loudenville. *Ciston Gome, Greene County—10 miles

south of Springfield. Crall Woods, Ashland County—5 miles

south-southwest of New London. *Cranberry Bog. Licking County-20 mlies

east of Columbus. *Dysart Woods, Beimont County-11 miles

southwest of St. Chairsville. Fort Hill State Memorial, Highland

County-3 miles north-northwest of Sinking Spring.

Glacial Grooves State Memorial, Erle County-on Relleys Island, 5 miles. offshore from Marbichead.

*Glen Heleral Area, Greene County in Yellow Springs.

*Goll Woods, Fulton County-Goll Woods State Forest, 3 miles northwest of Archbold.

*Hazelwood Belanical Preserve, Hamilton County- w mile east of Hazelwood.

*Holden Natural Areas, Lake and Geauga Counties-30 miles east of Cleveland.

*Hueston Woods, Butler and Preble Counties-44 miles north of Oxford.

Mantua Swamp, Fortage County-at the southeast edge of Mantua.

Mentor Marsh, Leke County-near Painesville.

*Tinkers Creek Gorge, Cuyahnga County-12 miles southeast of Cleveland. While Pine Hop Forest, Geauga County-34

miles south-southwest of liurton.

OKLAHOMA

Devil's Canyon, Canadian County-22 miles west-southwest of El Reno.

Wilderness *BlcCurlain County AlcCurtain County-center of site is 12 miles south of Smithville.

OREGON

*Crown Point Mulinomah east of Portland.

*Fort Rock State Monumen 49 miles south-southeast Morse Ridge Natural County-16 miles souther

*Newberry Crater, Deschu chutes National Forest. southeast of Bend.

PENNSYLVAL

*Dear Meadows Nature. County-6 miles souther lege.

*Box Huckleberry Sile. Persouth of New Bloomfield. *Cook Forest, Clarion Cour State Park.

*Ferneliff Peninsula Natus County-Ohiopyle State southeast of Connelisville *Ferncliff Wildflower and

Lancaster County-3 milfield.

*Florence Jones Reineman ary, Ferry and Cumber! miles northwest of Carlis!

•Hcwk Mountain Sa: County-30 miles north o: *Hearls Content Scenic County-14 miles southwe *Nemiocks Natural Area. I ralles south of Blain.

*Hickory Run Boulder County-in the Pr-tono Pl *Lake Lacawac Wayne C east of Scranton.

*McConnell's Mill State County-40 miles north of Pine Creek Gorge, Trops roadless stretch betwee Blackwell.

Presque Isle, Erie County-Eric.

Revnolds Spring and Aleen Tiogs County-Tiogs Stat south of Lectonia.

Snyder-Middlesworth Natu County-5 miles west of 7 Susquehanna Waler Gaps. 18 miles north of Harrisbe Tamarack Swamp, Warren

northeast of Columbus. Tannersville Cranberry County-5 miles northw bure.

The Glens Natural Arca. S zerne Counties-in Richt Park, 25 miles east of Will Tinicum Wildly's Presert County-Philadelphia.

Tionesta Scenie and Re Arcas, Warren and Meil miles south of Ludion. Titus and Wattsburg Roys, i

Wissahickon Valley, Philac Fairmount Park, Philadel;

PUERTO DICC

Mona and Monito Islandslands in the Caribbean.

RHODE ISLAN

Ell Pand, Washington (southwest of Rockville.

SOUTH CAROLI

Congaree River Swamp. Ric 20 miles southeast of Colu.

NATIONAL REGISTRY OF	•		
NATURAL LANDMARKS	COUNTY	DATE	REMARKS
(* = Registered)		•	21000
*Bear Swamp	JAMES AND THE PARTY OF THE PART	8-73	•
*Bergen-Byron Swamp	Genesee	6-64	
Big Reed Pond	THE STATE OF THE S	4-73	
*Deer Lick Nature Sanctuary	Cattaraugus	12-67	
*Dexter Marsh	Jefferson	10-73	
*Ellenville Fault-Ice Caves	Ulster	12-67	
*Fall Brook Gorge	Livingston	4-70	•
*Fossil Coral Reef	Genesee	5-68	
Gardiner's Island	distibility	4-67	
Hart's Woods	Monroe	4-72	
*Iona Island Marsh.	Rockland	12-71	
*Ironsides Island	Jefferson	10-67	
.Tiguetace Teretire	St. Lawrence	20-01	
Lakeview Marsh and Barrier Beach	Jefferson	4-73	•
*McLean Bogs	Tompkins	11-73	
*Mendon Ponds Park	Monroe	12-67	
*Mianus River Gorge	Westchester	4-64	•
*Montezuma Marshes	Seneca	3-74	
Moss Island	Herkimer	5-76	
*Moss Lake Bog	Allegany	8-73	
*Oak Orchard Creek Marsh	Genessee, Orleans	3-74	•
*Petrified Gardens -	Saratoga	5-67	• •
*Round Lake	Onondaga	11-73	
*Thompson Pond	Dutchess	8-73	
*Zurich Bog	Wayne	9-73	•

The state of the state of the state of

phonble	POTENTIAL theme s	(recommended tudies)	in	natural	history
---------	-------------------	-------------------------	----	---------	---------

Accabonac Harbor
 Amagansett NWR; and Atlantic
 Double Dunes

.hacc_ leur___ 12...]

Suffolk Suffolk

1 11

THEME STUDY

ACP-E

ACP-E

Partly FWS, partly TNC

 \sim

70

•	NEW YORK			Page 2	13
POTENTIAL			THEME		
	COUNTY	DATE			1
Carman's River			STUDY	REMARKS	4
Cayuatavaille White Pine Stand	Suffolk		400 -		
orcero Box	Albany		ACP-E	Partly FW9	
Clerk Reservation	Onondaga		EDF-F		
Connetquot River State Park	Onondaga		EDF-F		
Clauderry Bog Natura Description	Suffolk		EDF-L		
David Weld Sanctuary	Suffolk		ACP-E	Partly Staf"	
Deep Woods Glen -	Suffolk .		ACP-E	•	
Eldridge White Spruce Swamp	Cortland, Onondaga		ACP-E		
(Silusnan Swamn)			EDF-F		
Etna Pine Woods	Washington		_		
Five Ponds-Wolf Pond Natural	Tompkins		EDF-F		
VICTIPULL NAFIIPA CLJ A	Herkimer		EDF-F		
Haverstraw Quarry (Palisades Sill)	Suffolk		EDF-F	•	
Henry Smith Park (Smith Woods)	Rockland		ACP-E		
"VILLE LINGUPUA	Tompkins		P-G	Eval. 6-77	
Hook Mountain and Nyack Beach State	Suffolk		EDF-F		
Park (Palisades Sill)			ACP-E	TNC	
Labrador Pond	Rockland				
Lawrence Marsh Heron Colony	Onondaga, Cortland	•	P-G	Eval. 1-77	
Long Beach, Orient State Park	Nassau	_	EDF-F		
Montauk State Park	Suffolk		ACP-E		
	Suffolk	· -	ACP-E	State cartly USAF:	-
			ACP-E	Partly Store Existing Big	
Moriches Flats	•		,	includes to ural landmark	k
Morton (Elizabeth Alexandra) NWR	Suffolk			Reed Pond	_
Mount Dix	Suffolk		ACP-E	- Vild .	
Mount Haystack	Essex		ACP-E	FWS	
Mount Marcy	Essex		EDF-F		
Mount Sinai Harbor	Essex		EDF-F	•	•
Mount Skylight	Suffolk		EDF-F		
The Old Maids Woods	Essex		ACP-E		
Pineridge Virgin Pine	Schenectady		EDF-F		
rium island	Herkimer		EDF-F		
Riemen Woods	Suffolk		EDF-F		•
Riverhead Cedar Swamp Area	Enfield		ACP-E	USDA	
and view	Suffolk		EDF-F	-	
•	1-74-4		ACP-E	Partly US Nav;	.*

Robins Island Sagg Swamp Sparkill Gap Target Rock NWR Thorne Preserve Wading River Marshes Walking Dunes	COUNTY Suffolk Suffolk Rockland Suffolk Suffolk Suffolk Suffolk	DATE	ACP-E ACP-E ACP-E ACP-E ACP-E ACP-E ACP-E ACP-E	TNC Eval. 6-77 FWS TNC TNC State
--	--	------	---	----------------------------------

INACTIVE (less than national significance

Braddock Bay State Park Buckhorn Island State Park Kellis Pond Leatherman Caves Long Pond Mt. Ivy Glacial Delta Nissequogue River Seneca Lake Marsh Snake Hill	Monroe Erie Suffolk Westchester Suffolk Rockland Suffolk Schuyler Saratoga	5-74 5-74 5-74 10-77 5-74 2-77 5-74 5-74	EDF-L EDF-L IW LCS IW P-G IW EDF-F; IW EDF-K	See also Connecticut #30
--	--	---	--	--------------------------





NATIONAL REGISTER OF HISTORIC PLACES --

1968-1982 NEW YORK STATE LISTINGS:

ratoga Springs. PURE OIL GAS STATION, 65 Spring St., (10-18-78)

Saraloga Springs. TODD, HIRAM CHARLES. HOUSE (MARVIN-SACKETT-TODD HOUSE), 4 Franklin Sq., (5-31-72)

Saratoga Springs. UNION AVENUE HISTOR-IC DISTRICT, Union Ave., (4-4-78)
Troy vicinity. CHAMPLAIN CANAL, Extends

N from Troy to Whitehall (also in Washington County), (9-1-76) (also in Washington County)
Waterford, NORTHSIDE HISTORIC DIS-

TRICT, Both sides of Saratoga Ave. (NY 32) from Maple Ave. to Roosevelt Bridge (includes Old Champlain Canal), (12-4-75) Waterford. PEEBLES (PEOBLES) ISLAND, At jet. of Mohawk and Hudson rivers, (10-

2-73) PH0040789 WATERFORD Waterford. HISTORIC DISTRICT, Roughly bounded by the Hudson River, Erie Canal, and State St., at the Part

Delanson vicinity. CHRISTMAN BIRD AND WILDLIFE SANCTUARY, Schoharie Tpke., (8-25-70) PH0040801.

Rotterdam Junction vicinity. MABEE HOUSE, S of Rotterdam Junction on NY 5S, (5-22-78) HABS...

Schonectady. GENERAL : ELECTRIC RESEARCH LABORATORY, (5-15-75) N Schenectady. LANGMUIR, IRVING, HOUSE,

1176 Stratford Rd., (1-7-76) NHL.
Schenectady. NOTT MEMORIAL HALL,
UNION COLLEGE, Union College campus, (5-5-72) PH0040827

Schenectady. SCHENECTADY CITY HALL

AND POST OFFICE, Jay St., (10-11-78)

Schenectady. STOCKADE HISTORIC DIS-

TRICT, Roughly bounded by Mohawk River, railroad tracks, and Union St., (4-3-73) PH0040835

Schenectady vicinity. DELLEMONT-WEM-PLE FARM, W of Schenectady on Wemple Rd., (10-25-73) PH0040819

.Schenectady vicinity. SEELEY FARMHOUSE, 2 Freeman's Bridge Rd., (5-23-78)

schoharle county

Blenheim. NORTH BLENHEIM HISTORIC DISTRICT, Both sides of NY 30, beside Schoharie Creek, (12-31-74) PH0073661

Blenheim vicinity. LANSING MANOR . HOUSE, 2 mi. S of North Blenheim on NY 30, (5-25-73) PH0040843

Breskabeen. BREAKABEEN HISTORIC DIS-TRICT, (12-31-74) PH0073563

Cobleskill, COBLESKILL, HISTORIC DIS-TRICT, irregular pattern along Washington Ave., Main, Grand, and Elm Sts., (9-18-78) Cobleskill vicinity. BRAMANVILLE MILL, E

of Cobleskill on Caverns Rd., (8-27-76)
North Blenheim. OLD BLENHEIM BRIDGE, NY 30 over Schoharie Creek, (10-15-66)

PH0046591 NHL; G. Schoharie. OLD LUTHERAN PARSONAGE.

Adjacent to Spring St. in Lutheran Cemetery, (6-19-72) PH0040851 G. Schoharle. SCHOHARIE VALLEY RAIL.

ROAD COMPLEX, Depot Lane, (4-26-72) PH0042803 a.

Sharon Springs. AMERICAN HOTEL, Main . St., (9-9-75)

schuyler county

Montour Falls. MONTOUR FALLS HISTOR-IC DISTRICT, Main and Genesee Sts., (8-31-78)

yrone vicinity. *LAMOKA*, (10-15-66) PH0132446 NHL. Tyrone

SCHUYLER COUNTY Watkins Glen, COURTHOUSE COMPLEX, Franklin St., (6-5-74) PH0040860

,i: seneca county

Favette vicinity. ROSE IIILL, W of Fayette on NY 96A, (2-6-73) PHO040878 HABS

Ovid. SENECA COUNTY COURTHOUSE COMPLEX AT OVID, NY 414, (12-12-76) Seneca Falls. FALL STREET-TRINITY LANE HISTORIC DISTRICT, Off NY 414 at Van Clecf Lake, (2-11-74) PH0043222

Seneca Falls. STANTON, ELIZABETH CADY, HOUSE, 32 Washington St., (10-15-66) PH0046485 NHL.

Willard. WILLARD ASYLUM FOR THE CHRONIC INSANE, Willard State Psychiatric Center, (3-7-75)

st. lawrence county."

ADIRONDACK FOREST PRESERVE, Reference-see Clinton County (1-2-74) Canton. HERRING-COLE HALL,

LAWRENCE UNIVERSITY, St. Lawrence University campus, (5-1-74) PH0040673

anton. RICHARDSON HALL, ST. LAWRENCE UNIVERSITY, St. Lawrence University campus, (5-1-74) PH0040681

Canton. VILLAGE PARK HISTORIC DIS-TRICT, Both sides of Main and Park Sts., and Park Pl., (5-6-75)

Chase Mills. CHASE MILLS INN. Mein and Townline Rds., (11-29-78)

lassena vicinity. ROBINSON BAY ARCHEOLOGICAL DISTRICT, N of Mas-ROBINSON Massena sena at Robinson Bay, (9-13-77)

Ogdensburg. NEW YORK STATE ARMORY (THE ARSENAL), 100 Lafayette St., (12-12-761

Ogdensburg. U.S. CUSTOMSHOUSE, 127 N. Water St., (10-9-74) PH0031674

Ogdensburg. U.S. POST OFFICE, 431 State St., (8-16-77)

steuben county

JENNING'S **TAVERN** Corning. (PATTERSON INN), 59 W. Pulteney St., (9-20-73) PH0040886

Corning. MARKET STREET HISTORIC DIS-TRICT, Market St. from Chestnut St. to Wall St., (3-1-74) PH0043231

Hornell HORNELL PUBLIC LIBRARY, 64 Genesee St., (2-24-75)

- William Change

LONG ISLAND WIND AND TIDE MILLS THEMATIC RESOURCES, Reference—see Individual listings for: East Hampton, Gardiners Island Windmill, Hayground Windmill, Hook Windmill, Wainscott Windmill; Hunsington, Van Wyck-Lesserts Tide Mill; Shelter Island, Shelter Island Windmill; and Southampton, Beebe Windmill, and Windmill at Water Mill. Also see Nassau County,

Cutchogue. GLD HOUSE, THE, NY 25, (10-15-66) PHO132721 NHL; HABS.

Cutchogue vicinity. FORT CORCHAUG SITE, (1-18-74) PH0031852

East Hampton. EAST HAMPTON VILLAGE DISTRICT, Bounded by Main St. and James and Woods Lanes, (5-2-74) PH0031836
East Hampton. GARDINERS ISLAND WIND-

MILL, (Long Island Wind and Tide Mills Thematic Resources) On Gardiners Island, (12-27-78) (also see nassau county)

East Hampton. MAYGROUND WINDMILL, (Long Island Wind and Tide Mills Thematic Resources) At Windmill Lane, (12-27-78)

(also see nassau county)
East Hampton. HOOK WINDMILL. (Long Island Wind and Tide Mills Thematic

Resources), (12-27-78) (also see nassau county)

East Hampton. WAINSCOTT WINDMILL. (Long Island Wind and Tide Mil's Thematic Resources) On Georgica Association grounds, (12-27-78) (also see massau county)

ast Hampton, Long Island. MORAN, THOMAS, HOUSE, Main St. (10-15-66) East PH0132659 NHL.

East Hampton vicinity. MONTAUK POINT LIGHTHOUSE, Montauk Point, (7-7-69) PH0031887

Great River vicinity. CUTTING, BAYARD, ESTATE (WESTBROOK), N of Great River on NY 27, (10-2-73) PH0031810

Great River vicinity. SOUTHSIDE SPORT-SMENS CLUB DISTRICT, NE of Great River, off NY 27, (7-23-73) PH0031917 Huntington. EATONS NECK LIGHT, Eatons

Neck Point at Huntington Bay and Long Island Sound off NY 25A, (4-3-73) PH0031828

Huntington. VAN WYCK-LEFFERTS TIDE MILL, (Long Island Wind and Tide Mills Thematic Resources) 2 mi. NE of Mill and Southdown Rds., (12-27-78) (also see nassau county)

untington vicinity. LLOYD, JOSEPH. HOUSE, NW of Huntington on Lloyd Har-Huntington bpr Rd., (11-7-76)

Mastic. FLOYD, WILLIAM, HOUSE, 20

Washington Ave., (4-21-71)
Mattituck. GILDERSLEEVE, ANDREW, OC-TAGONAL BUILDING, Main Rd. and Love Lane, (8-19-76)

Miller Place. MILLER PLACE HISTORIC DISTRICT, N. Country Rd., (6-17-76)

Montauk vicinity. MONTAUK ASSOCIATION HISTORIC DISTRICT, E of Montauk off NY 27 on DeForest Rd., (10-22-76) Orient. ORIENT HISTORIC DISTRICT, NY

25. (5-21-76) Sag Harbor. SAG HARBOR VILLAGE DIS-

TRICT, (7-20-73) PH0031895 Saint James. SAINT JAMES DISTRICT, On

NY 25A, (7-20-73) PH0031909

Shelter Island. SHELTER ISLAND WIND-MILL, (Long Island Wind and Tide Mills Thematic Resources) N of Manwaring Rd., (12-27-78) (also see nassau county) PRESBYTERIAN FIRST -Smithtown.

CHURCH, 175 E. Main St., (12-23-77)
Smithtown. HALLIOCK INN, 263 E. Main St.,

(8-7-74) PH0031861

Southampton. BEEBE WINDMILL, (Long Island Wind and Tide Mills Thematic Resources) SE corner of Ocean Rd. and Hildreth Ave., (12-27-78) (also see nassau county)

Southampton. WINDMILL AT WATER MILL. (Long Island Wind and Tide Mills Thematic Resources) NY 27 and Halsey Lane, (12-27-78) (also see nassau county)

St. James vicinity. BOX HILL ESTATE, NW of St. James on Moriches Rd., (12-4-73) PH0031801 a.

St. James vicinity. MILLS POND DISTRICT. W of St. James on NY 25A, (8-1-73) PH0031879

Stony Brook. MOUNT, WILLIAM SYDNEY. HOUSE, Gould Rd. and NY 25, (10-15-66) PH0132667 NHL.

West Bay Shore. SAGTIKOS MANOR, Montauk Hwy. (NY 27A), (11-21-76)

Westhampton. JAGGER HOUSE, Old Montauk Hwy., (12-12-78)

sullivan county

DELAWARE AND HUDSON CANAL. Reference—see Orange County (1-2-74)

11, 1

Vol. 47, No. 22 / Tuesday, February

Otero County

Secremento vicinity, Circle Cross Rench Headquarters, SW of Sacremento (11-17-

Federal Register /

Valencia County

Belen, Belen Hotel, 200 Becker Ave. (11-12-80)

NEW YORK

STONE HOUSES OF BROWNVILLE THEMATIC RESOURCES. Referenceindividual listings under Jefferson County.

Albany County .

Albany, Knickerbocker and Arnink Garages, 72-74 (11-28-60)

Cayuga County Aurora, Aurora Village-Wells College Historic District, NY 90 (11-19-80)

Chenango County

Oxford, Burr, Theodore, House, Fort Hill Sq. (9-11-81)

Dutchess County

Hyde Park, Hyde Park Railroad Station, River Rd. (9-11-81)

Buffalo. Dorsheimer. William, House, 434 Delaware Ave. (11-21-80) Buffalo, Lafayette High School, 370 Lafayette

Ave. (12-3-80)

Franklin County Paul Smiths, Smith's, Poul, Hotel Store, Paul Smith's College Campus (12-3-80)

Fulton County

Johnstown, Fulton County Jail (Tryon County fail) Perry and Montgomery Sts. (10-19-61)

Athens, VILLAGE OF ATHENS MULTIPLE RESOURCE AREA. This area includes: Athens Lower Village Historic District, Roughly bounded by Hudson River, NY 385, Vernon and Market Sts.; Brick Row Historic District, Off NY 385; Stranahan-DelVecchio House, N. Washington St.; Van Loon, Albertus, House, N. Washington St.; Zion Lutheron Church, N. Washington St. (11-28-60)

jefferson County

Brownville, Archer, William, House (Stone Houses of R.ownville Thematic Resources) 112 Washington St. (11-19-80)

Brownville, Brown, Gen. Jacob, Mansion (Stone Houses of Brownville Thematic Resources) Brown Blvd. (11-19-60)

Brownville. Brownville Hotel (Stone Houses of Brownville Thematic Resources) Brown Blvd. and W. Main St. (11-19-60)

Brownville, Vogt House (Stone Houses of Brownville Thematic Resources) 110 Main St. (11-19-60)

Brownville, Walroth, Arthur, House (Stone Houses of Brownville Thematic Resources) 114 Corner Pike (11-19-80)

Kings County

Brooklyn. Park Slope Historic District. Roughly bounded by Prospect Park West. Berkeley Pl., 15th St., 6th, 7th and Flatbush Aves., (11-21-80)

Brooklyn, Public School 65K;

Broduyn, Public School 108,

Brooking , Public School III and PUBLIC School & CHAMERY

New York, Parachute Jump, Coney Island (9-2-80)

Livingston County

North Bloomfield, North Bloomfield School, 7840 Martin Rd. (5-28-81)

Madison County

Onelds, Cottage Lawn, 435 Main St. (11-6-60)

Monroe County

Riga, Riga Academy, 3 Riga-Mumford Rd. (11-21-60)

New York County

Liberty Island. Statue of Liberty National Monument, Ellis Island and Liberty Island [10-15-68) (also in Hudson County, N]] New York, Houses at 83 and 85 Sullivan

Street, 63-65 Sullivan St. (11-17-60) New York, New York Public Library. Hamilton Grange Branch, 503 and 505 W.

145th St. (7-23-81) New York, Stuyvesant Square Historic District, Roughly bounded by Nathan D. Perleman Pl., 3rd Ave., E. 18th and E. 15th

Sis. (11-21-80) Ordendage County

Syracuse, Central Technical High School, 700-745 S. Warren St. (4-8-81)

Orange County

Goshen, Church Park Historic District, Park Pl., Main and Webster Sts. (11-17-80) Montgomery. MONTGOMERY VILLAGE MULTIPLE RESOURCE AREA. This area includes: Bridge Street Historic District; Union Street-Academy Hill Historic District; Crobtree-Patchett House, 232 Ward St.; Miller, Johannes, House, 272 Union St.; Montgomery Worsted Mills. Factory St. (11-21-80)

Newburgh. New York State Armony. Broadway and Johnson St. (6-18-61)

Olsego County

Cooperstown, Cooperstown Historic District ... NY 28, NY 80 and Main SL (11-18-80) Oneonia, Stonehouse Farm, E of Oneonia on NY 7 (11-19-60) Oneonta vicinity. Fortin Site. (11-28-60)

Rockaway Point vicinity. Riis. Jacob, Park Historic District, Rockaway Beach Blvd. [6-17-81]

Rensselarer County

Hoosick Falls, Hoosick Falls Historic District. Roughly bounded by RR tracks. Church, Main and Elm Sts. (12-3-80)

Richmond County

Staten Island. St. Poul's Memorial Church and Rectory. 225 St. Paul's Ave. (11-21-80)

Schenectady County

Schenectady. General Electric Realty Plot. Roughly bounded by Oxford Pl., Union Ave., Nott St., Lenox and Lowell Rds. (11-

Schohorie County

Fulton, Shafer Site. (11-28-80)

Seneca County

Covert, Covert Historic District, NY 96 [11-21-80)

Steuben County

Rheims, Pleasant Valley Wine Company, SR 88 (11-18-60)

Suffolk County

Bay Shore vicinity. Fire Island Light Station, Robert Moses Causeway (9-11-81) Huntington. Fort Golgotha and the Old Buriol Hill Cometery, Main St. and Nasseu Rd. (3-2-811

Mastic Beach, Floyd. William, House (Old Mostic) 20 Washington Ave. (10-15-60)

Owego, Owego Centsal Historic District. North Ave., Park, Main, Lake, Court, and Fronts Sts. (12-3-80)

tilster County

Cregsmoor vicinity. Chetolah (George Inness. Jr., Estate), S of Cragsmoor on Vista Maria Rd. (10-21-80) .

Westchester County

Katonah. *Joy. John, Homeste*od, Jay St. (5-29- 81) NHL

(Backill vicinity, Van Cartlandt Upper Manor House, Oregon Rd. (4-2-61) Scarsdale, Wayside Cottage, 1039 Post Rd.

(5-1-81) Yorktown Heights, Yorktown Heights

Railroad Station, Commerce St. (3-19-61) Wyoming County ...

North Java, Arcade and Attica Railroad (11-17-80)

And The

NORTH CAROLINA

Beaufort County

Belhaven, Belhoven City Hall, Main St. (1nty 27-81) 11.00

Bertie County

Windsor vicinity. King House, NW of -Windsor off NC 308 (8-26-71)

Brunswick County

Southport, Southport Historic District. Roughly bounded by Cape Fear River, Rhett, Bay, Short and Brown Sts. (11-25-80)

Chatham County

Pittsboro vicinity, Hadley House and Grist Mill, NW of Pittsboro on SR 2165 (11-25-

Cumberland County

Fayetteville, Confederate Breastworks. Raleigh Rd. and U.S. 401 (10-7-81)

Currituck County

Poplar Branch vicinity, Boum Site (31CK9), N of Poplar Branch (12-8-60)

Davidson County

Lexington vicinity. Sowers, Philip, House, SR 1162 (11-25-60)

Thomasville vicinity. Brummell's Inn. N of Thomasville (11-25-80)

Thomasville. Thomasville Railroad Passenger Depot. W. Main St. (7-9-61)



Tuesday March 1, 1983

Part II

Department of the Interior

National Park Service

National Register of Historic Places; Annual Listing of Historic Properties

New York State National Reporter Listings. 1982 Oswego County

Oswego. Franklin Square Historic District. Roughly bounded by 3rd. 6th. Van Buren, and Bridge Sts. (08/04/82)

Scirroeppel, Schroeppel House, Morgan Rd. (09/09/82)

Putiam County

Philipstown vicinity, Old Albany Post Road, US 9 (07/08/82)

Queens County

Queens, Marine Air Terminol, La Guardia Airport (07/09/82)

Richmond County

Rossville vicinity, Sandy Ground Historic Archeological District (A085-01-2258-D03), (09/23/82)

Staten Island, Brighton Heights Reformed Church, 320 St. Mark's Pl. (06/03/82) Staten Island, La Tourette House, Richmond

Hill (03/05/82)

Staten Island, Ward. Caleb T., Mansion, 141 Nixon Ave. (07/26/82)

Tottenville vicinity, Ward's Point Conservation Area (A085-01-0030), SW of Tottenville at Authur Kill and Hylan Blvd. (09/29/82)

Rockland County

Upper Nyack, Upper Nyack Firehouse, 330 N. Broadway (09/23/82)

Saratoga County

Ballston Spa, Union Mill Complex, NY Route 50, Milton Avs. (06/17/82)

Seneca County

Lodi, Lodi Methodist Church, S. Main and Grove Sts. (05/06/82)

St. Lawrence County

Brasher Falls, Dr. Buck-Stevens House, W. Main St. (05/17/82)

Morley, Harrison Grist Mill, NY345 (09/16/

Morristown, Ford, Jacob, House (Morristown Village MRA). Northumberland St. (09/02/

Morristown, Land Office (Morristown Library) (Morristown Village MRA). Main St. (09/02/82)

Morristown, Miller, Paschal House (Morristown Village MRA), Main and Gouveneur Sts. (09/02/82)

Morristown, Morristown Schoolhouse (Morristown Village MRA), Columbia St. (09/02/82)

Morristown, Stocking, Samuel, House (Morristown Village MRA). 83 Gouveneur St. (09/02/82)

Morristown, Stone Windmill (Morristown Village MRA), Morris St. (09/02/82) Morristown, United Methodist Church

(Morristown Village MRA). Gouveneur St. (09/02/82)

Morristown, Wright's Stone Store (Morristown Village MRA), Main St. (09/

Suffolk County

Brookhaven vicinity, Smith Estate, N of Brookhaven at Longwood and Smith Rds.

Fort Salonga, Fort Salonga (NYSDHP Unique Site No. A 103-08-0036), (05/21/62)

Tompkins County

Ithaca, St. James AME Zion Church, 116-118 Cleveland Ave. (07/22/82)

Ulater County

Bruynswick vicinity, Reformed Church of Shawangunk Complex, Hoagerburgh Rd. (06/03/82)

Gardiner vicinity, Tuthilltown Gristmill, Albany Post Rd. (06/14/82)

Libertyville vicinity. DuBoris, Hendrikus, House, 600 Albany Post Rd. (07/08/82)

Village of Saugerties. Main-Partition Streets Historic District, Roughly bounded by Main, Partition, Market and Jane Sts. (07/ 08/82)

Westchester County

Port Chester, Bush-Lyon Homestead, John Lyon Park, King St. (04/22/82)

Rye City, Knopp, Timothy. House and Milton Cemetery, 265 Rye Beach Ave. and Milton Rd. (08/14/82)

Tarrytown, Foster Memorial A.M.E. Zion Church, 90 Wildey St. (06/03/82)

Tarrytown, Patriot's Park, US 9 (06/14/82) White Plains, Friedlander, Leo, Studio, 825 W. Hartsdale Rd. (07/29/82)

Yonkers, *Hart, Eleazer, House*, 243 Bronxville Rd. (07/29/82)

Yonkers, St. John's Protestant Episcopal Church, One Hudson St. (07/29/82)

Yonkers, Yonkers Water Works, Roughly bounded by Saw Mill River and Grassy Sprein Rds., and Gilmare Dr. (07/21/82)

NORTH CAROLINA

Alamance County

Burlington, Menagerie Carousel, Burlington City Park, S. Main St. (08/30/82)

Haw River, Holl, Charles T., House, 228 Holt St. (08/01/82)

Mebane vicinity, White Furniture Company. E. Center and N. 5th Sts. (07/29/82)

Alleghany County

Whitehead vicinity, Crouse, Elbert, Farmstead, S of Whitehead on Blue Ridge Parkway (07/29/82)

Beaufort County

Washington vicinity. Rosedale, NW of Washington off SR 1407 (04/29/82)

Bertie County

Lewiston, St. Frances Methodist Church, Off NC 308 (04/29/82) Colerain vicinity. Gorrett-White House, (06/

28/82)

Merry Hill vicinity. Hermitage, The, N of Merry Hill (06/08/82)

Merry Hill vicinity, Scotch Hall, E of Merry Hill on SR 1511 (04/29/82)

Roxobel vicinity. Oaklana, NE of Roxobel off SR 1249 (04/15/82)

Roxobel, Pineview. Off SR 1249, (06/28/62) Windsor vicinity, Elmwood, W of Windsor on

SR 1101 (06/08/82) Windsor vicinity. Liberty Hall. Off SR 1108 (06/08/82)

Windsor, *Freeman Hotel*, York and Granville Sts. (09/09/82)

Windsor, *Rosefield*. 212 W. Gray St. (08/28/

Buncombe County

Ashevilla, Demens-Rumbough-Crawle House, 31 Park Ave. [08/01/82] Asheville, Reynolds, Dr. Carl V., House,

Edgemont Rd. (08/19/82)

Pairview vicinity, Lanning, John A., House, of Fairview on SR 3128 (09/23/82)

Cabarrus County

Mount Pleasant, Lentz Hotel, College St. (06/ 14/82]

Camden County

Belcross vicinity, Grandy, Caleb, House, Off SR 1145 (04/29/82)

Chotham County

Parrington vicinity, Stone, Joseph B., House, SR 1008 (06/01/82)

Pittsboro vicinity, Aspen Hall, W of Pittsboro on US 84 (07/29/82)

Chowan County

Smalls Crossroads vicinity, Cullins-Baker House, NC 32 (04/29/82)

Clay County

Hayesville vicinity, Spikebuck Town Mound and Village Site, (08/17/82)

Cleveland County

Boiling Springs, Hamrick, E. B., Hall, Gardner-Webb College campus (07/12/82) Polville vicinity, Lattimore John, House, NW of Polkville on SR 1372 (06/26/82) Shelby, Masonic Temple Building, 203 S.

Washington St. (07/15/82)

Cumberland County

Fayetteville, Confederate Breastworks, 2300 Ramsey St. (10/07/81)

Payetteville, St. Joseph's Episcopal Church. Ramsey and Moore Sts. (08/01/82)

Durham County

Durham, Bullington Warehouse, 500 N. Duke at. (08/30/82)

Durham, Greystone, 618 Morhead Ava. (08/ 01/82)

Edgecombe County

Pinetops vicinity, Vinedale, SW of NC 42/43 and SR 1122 (07/15/82) Tarboro vicinity, Cedar Lane, N of Tarboro off NC 44 (04/15/82)

Foreyth County

Winston-Salem, Gilmer Building, 416–424 W. 4th St. (07/29/82)

Winston-Salem, Rogers, Jan:es Mitchell, House, 102 S. Cherry St. (07/15/82)

Gates County

Gates vicinity, Freeman House, N of Gates on US 13 (09/23/82)

Guilford County

Colfax vicinity. Show-Cude House, Off SR 2010 (06/01/82)

Greensboro vicinity, Coldwell, David, Log College Site, Between Cornwellis Dr., Hobbs and Holden Rds. (01/13/82)

Greensboro, Dixon-Leftwich-Murphy House, 507 Church St. (09/23/82)

HYDROLOGY AND SOME EFFECTS OF URBANIZATION ON LONG ISLAND, NEW YORK

TABLE 2.—Summary of the rock units and their water-bearing properties, Long Island, N.Y.

[After McClymonds and Franks, 1971]

					moon and		
System	B eries	Geologic unit	Hydro- geologic unit	Approximate maximum thickness (feet)	Depth from land surface to top (feet)	Character of deposits	Water-bearing properties
	Holocene	Artificial fill, selt marsh deposits, stream allovium, and shoreline deposits.	Holocene deposita	80 .	•	Band, gravei, clay, silt, organic mud, peat, loam, and shells. Colors are gray, brown, green, black, and yellow. Holocene artificial-fill deposits of gravel, sand, clay, and rubbish.	Permeable sandy beds beneath barrier beaches yield iresh water at shallow depths, brackish to salty water at greater depth. Clay and all beneath bays retard salt-water encroachment and confine underlying aquism. Stream-flood-plain and marsh deposits may yield small quantities at water, but are generally clayer or silty and much less permeable than underlying upper glacial aquifer.
Quaternary	Pleistocene	Upper Pleistocene deposits	Upper glacial aquifer	400	9-80	Till (mostly along north shore and in moralnes) composed of clay, sand. gravel, and boulders. Forms Harbor Hill and Bonkenkoma terminal moralnes. Outwash deposits (mostly between and south of terminal moralnes, but also interlayered with till) consist of quartsoes sand, fine to very coarse, and gravel, pebble to boulder sized. Glaciolacustrine deposits (mostly in central and eastern Long Island) and marine clay (locally along south shore) consist of clit, clay, and some and and gravel layers; includes "Dofoot clay" in southern Nassau County and Queens County. Colors are mainly gray, brown, and yellow; silt and clay locally are grayish green. Contains shells and plant remains, generally in finer grained beds; also contains Foraminiers. Contains chlorite, biotite, muscovite, hornblende, cilvine, and feldspar as accessory minerals; "20-foot clay" commonly contains glauconite.	Till is poorly permeable; commonly causes perched-water bodies and impedes downward percolation of water to underlying beds. Outwash deposits are moderately to highly permeable; specific capacities of wells tapping them range from about 10 to more than 200 gpm per foot of drawdown. Good to excellent infiltration characteristics. Giscolacustrine and marine elay deposits are mostly peorly permeable, but locally have thin moderately permeable layers of sand and gravel; generally retard downward permeabino of ground water. Contains tresh water, except near the aborelines. Till and marine deposits locally retard salt-water encrosedment.
		——Unconformity?— Oardiners Clay	Gardiners Clay	200	80-400	Clay, siit, and few layers of sand and gravel. Colors are grayish green and brown. Contains marine shells, Foraminifera, and lignite; also glauconite, locally. Allitude of top generally is 80-80 ft below mean sea level. Occurs in Kings and Queens Counties, southern Nassau County, and Buffolk County; similar clay occurs in buried valleys near north shore.	Poorly permeable; constitutes conduing layer for underlying Jameco aquifer. Locally, sand layers yield small quantities of water.
		Jameso Gravel	Jameco aquiler	300	80-880	Band, fine to very coarse, and gravel to large-pebble size; lew layers of clay and silt. Gravel is composed of crystalline and sedimentary rocks. Color is mostly dark brown. Contains chlorite, birtite, muscovite, hornblende, and feldspar as accessory minerals. Occurs in Kings and Queens Counties, and southern Nassau County; similar deposits occur in buried valleys near north shore.	Moderately to highly permeable: contains mostly fresh water, but brackish water and—sater with high iron content locally in sontheasem Nassau County and southern Queen County. Specific especifies of wells in the Jameco range from about 20 to 150 gpm per loot of drawdown.
Tertiary(?)	Pliocene(?)	Mannette Gravel	(Commonly included with upper glacial aquifer.)	300	0-120	Gravel, fine to coarse, and lenses of sand; scattered clay lenses. Colors are white, yellow, and brown. Occurs only near Nassau-Suffolk County border near center of Island.	
Cretaccous			Magothy aquifer	1, 100	9-800	Band, fine to medium, clayey in part; interbedded with ienses and layers of coarse sand and sandy and solid clay. Gravel is common in basal 80-200 ft. Band and gravel are quartizee. Lignite, pyrite, and from exide concretions are common: muscovite, magnetite, rutile, and garnet are accessory minerals. Colors are gray, white, red, brown, and yellow.	ble locally. Specific capacities of wells in the Magothy generally range true i to about 30 gpn; per foot of draw- down, rarely are as much as 80 ppm per it. Water is unconfined in upper- most parts, elsewhere is confined.

itreams and glaciers so that the Pleistocene deposits i on an irregular Cretaceous surface, and in places l. Pleistocene deposits fill valleys cut by preglacial and glacial streams. These valleys have been fairly relationed in Kings and Queens Counties and along he northern margin of the island eastward to the niddle of Suffolk County. In eastern Suffolk County, we ever, data on the contact between the Pleistocene the Cretaceous are very sparse.

The upper surface of the Cretaceous deposits is above sea level in a large area in northern Nassau and the tern Suffolk Counties, and in all but a few small reas, the Pleistocene deposits cover the Cretaceous leposits throughout Long Island. Pertinent information concerning the principal hydrogeologic units limin the ground-water reservoir are briefly sumnarized in table 2.

round water in the uppermost part of the zone aturation on Long Island (mainly in the upper lacial aquifer, but locally also in the Magothy of fer) is generally under water-table conditions. I sain conditions predominate in most of the other arts of the ground-water reservoir of Long Island, where the saturated deposits are overlain and confined silty and clayey layers of low hydraulic conductivity. The hydraulic head in the confined aquifers anges from several feet below the water table to be ly 20 feet above it. At places along the north and him shores and on the barrier beaches, the head in the Lloyd aquifer is high enough to cause some wells the penetrate this aquifer to flow.

addition to the Raritan clay, which confines water the Lloyd aquifer, the other major well-defined offining layer in the ground-water reservoir is the diners Clay. This unit locally confines water in Jameco and Magothy aquifers. Numerous clayey and silty layers in the Magothy aquifer and clay in the glacial deposits also are significant containg layers. Normally, the degree of confinement in he Magothy aquifer increases with depth as more more clayey layers intervene between the deep and the water table.

I UNDARIES OF THE FRESH GROUND-WATER RESERVOIR

ne boundaries of the fresh ground-water reservoir re the water table, the fresh-salt water interface, and bedrock surface. The estimated average position he water table under natural conditions is shown a figure 9. The position of the contours is based on ap of the water table in Kings, Queens, and au Counties in 1903 (prepared by Vestch in 1906), and on later water-table maps of Suffolk County.

Major features of this map are the two areas of highest ground-water altitude (represented by closed 80-ft and 60-ft contours) which extend approximately westward in the north-central parts of Nassau and Suffolk Counties. Also noteworthy are the steep water-level gradients near the north shore of Long Island compared to the gradients near the south shore.

The water table, which is the upper_boundary of the ground-water reservoir, is a dynamic (moveable) feature. Present information indicates that recharge to the water table occurs throughout virtually all of Long Island. Therefore, the water table is not, from the point of view of potential theory, a stream surface. It is instead a surface characterized by a constantly varying potential which is equal to the altitude of the water table at any point. Because the water table on Long Island is largely a recharging potential boundary of the ground-water reservior, streamlines flow perpendicularly from the water table into the ground-water reservoir. Locally, as near the shorelines where ground water is lost by evapotranspiration, the water table is a discharging potential boundary.

The ground-water reservoir is bordered laterally by a second moveable boundary—the fresh ralt water interface. The position of this interface (or these interfaces) is fairly accurately known only in southwestern Nassau and southeastern Queens Counties as a result of an intensive investigation by Lusczynski and Swarzenski (1966). A north-south cross section through the ground-water reservoir in this area (fig. 10) shows three separate salt-water wedges—a shallow wedge in the glacial aquifer and intermediate and deep wedges in the Magothy aquifer. Furthermore, a fourth wedge exists in the Lloyd aquifer somewhere seaward of the barrier beaches.

The occurrence of fresh ground water in the Lloyd aquifer below salty ground water in the lower part of the Magothy aquifer has never been adequately explained. However, this occurrence must be related in some way to the relatively impermeable Raritan clay overlying the Lloyd aquifer. At least four separate wedges of salty ground water with relative positions approximately as indicated in figure 10 probably occur for a considerable distance eastward from western Nassau County (on the order of tens of miles) along the south shore of Long Island.

Very scanty information indicates that the Lloyd aquifer and the deep Magothy aquifer contain salty ground water beneath the Forks of Long Island. The fresh ground water beneath the Forks occurs in a lens ranging in thickness from a few feet to several hundred feet.

AUMAN LABORATORIES, INC.



ENVIRONMENTAL

REPOR	T OF CHEMICAL	ANALT SES		•	MALT	515
643.7890 REPOR			DATE	June	30,	197
:r. Latimer			SOURCE	OF SAME	PLE	
47 Oswego Place		Friv	ate Well			
North Babylon. Jew Y	ork					
DLLECTED 6/24/76 RECEIVE		REPORTE	6/20	/76		-
SAMPLING				TIME_		
Hose						
		1	2	3		4
	UNITS					
TURBIDITY HYDROGEN ION CONCENTRATION	ρΗ					
FREE CARBON DIOXIDE, AS CO2	mg/l					
ALKALINITY P. AS COCO3	mg/l			<u> </u>		-
TOTAL ALKALINITY, AS COCOS	mg/l					
HARDNESS, TOTAL AS CoCO3	mg/1					
CHLORIDES, AS CI	mg/l				- - -	
IRON, AS Fe	mg/l				- -	
MANGANESE, AS Mn	mg/l				_	
AMMONIA, FREE, AS N	mg/l				_	
NITRATES, AS N	mg/l				_	
SYNTHETIC DETERGENTS, AS MBAS	mg/l	60.			_ _	
Total Chromium	mg/l	69.				
Rexavalent	ing/1	03.				
		 				
						
			· ·			
		 			1	

REMARKS

Hezavalent Chromium exceedes USPHS standards for potable water.

	4304
LAB. NO.	Client
COLLECTED BY	

LAUMAN LABORATORIES, INC.

WOODWARD-CLYDE CONSULTANTS RECORD OF TELEPHONE CONVERSATION

Date: 6 February 1986 Time: 3:15 Project No. 6:24-48
Re: Jamelo Industries Inc.
Call Placed By: L. Wade Of: Wayne
To: Jin: Pin: Of: Butfolk Country Dept. of
Notes: Health Services
(316) 451-4623
Spoke with Frank Randall because J. Pin we
unavailable. Dave Obrig is inspector for site is available
during morning hours. Jameeo is and largest file (3' +x ck)
Some questions requiring answers:
· Wall data - depth to water (10'-17' 1964; 60'-1980)
· years of Operation
· Processing
· SPDES Viclation(s)?
· Consent Order? Dak?
Kence-yes
Security Trance - no
Israal Gajn- V. P.
Janie I.

common air contaminant. This material is usually caustic in its action on skin, mu mem or organic matter in general.

Fire Hazard: Dangerous; a very powerful oxidizing agent. In contact with organic matter or reducing agents, causes violent reactions with acetic acid, acetic anhydride, acetone, Al, NH₃, anthracene, As, C₆H₆, camphor, C1F₃, CrS, ethyl ether, dimethyl formamide, alcohol, glycerol, hydrocarbons, H₂S, CH₃OH, naphthalene, P, K, organic matter, potassium ferricyanide, pyridine, Se, Na, sodium amide, S, turpentine. [19]

Explosion Hazard: Upon intimate contact with powerful reducing agents, can cause violent explosions.

CHROMIC ACID SOLUTION. See also chromic acid.

CHROMIC ACID-TREATED FATS AND OILS. THR = A (S) carc. [/4]

CHROMIC ANHYDRIDE. See chromic acid.

CHROMIC BROMIDE. Hexagonal olive-green crystals. CrBr₃, mw: 291.76, mp: subl, d: 4.25 @ 0°. THR = See chromium compounds and bromides.

CHROMIC CHLORIDE. See chromium chloride III.

CHROMIC CHROMATE. Cr.O₁₂, mw: 452. THR = An exper (+) neo and carc. [3, 6]

CHROMIC FLUORIDE. Rhombic green crystals. CrF₃, mw: 109.01, mp: >1000°, subl 1100-1200°, d: 3.8. THR = See chromium compounds and fluorides. Violent reaction with (K + NH₄Br). [19]

CHROMIC NITRATE. Monoclinic brown crystals. Cr(NO₃)₃·7{H₂O, mw: 373.15, mp: 100°. THR = See chromium compounds and nitrates.

CHROMIC-o-PHOSPHATE. Violet crystals. Cr(PO₄)·2H₂O, mw: 183.02, d: 2.42 @ 32.5°. THR = See chromium compounds and phosphates.

CHROMIC SESQUESULFIDE III. Violet or red powder. Cr₂(SO₄)₃, mw: 392.22, d: 3.012. THR = See chromium compounds and sulfates.

CHROMIC SULFITE. Greenish-white crystals. Cr₂(SO₃)₃, mw: 344.22, mp: decomp, d: 2.2. THR = See chromium compounds and sulfites.

CHROMITE ORE. Syn: ferric chromate.

THR = An exper (+) neo and carc. [3, 6] See chromium compounds.

CHROMITE ORE ROAST.

THR =An exper (+) carc. [3, 6] See chromium compounds.

CHR MITE ROAST LEACHED BROMIDE.

THR = An exper (+) carc. [3, 6, 2] See chromium compounds.

CHROMIUM. Very hard metal, cubic steel, gray crys-

tals. Cr, at wt: 52.01, mp: 1890°, bp: 2200°, d: 7.2 vap. press: 1 mm @ 1616°.

THR = HIGH pulmonary toxicity. An exper (+) no and carc. [3, 6, 23, 95] See also chromium con pounds.

Radiation Hazard: For permissible levels, see Section 5. Table 5A.5. Artificial isotope 51 Cr, T! = 28c decays to stable 51 V via ec. Emits γ 's of 0.32 Me' and x-rays.

Fire Hazard: Mod, in form of dust. Reacts violently with NH₄NO₃, H₂O₂, Li, NO, KClO₃, SO₂. [19]

CHROMIUM AMMINE NITRATES.

THR = May be heat- and impact-sensitive. [19]

CHROMIUM AMMINE PERCHLORATES.

THR = May be impact-sensitive. [19]

CHROMIUM BORIDE.

THR = See chromium compounds.

CHROMIUM CARBIDE.

THR = See chromium compounds.

CHROMIUM CARBONYL. Colorless crystals.

Cr(CO)₆, mw: 220.07, mp: subl @ room temp., sinters
@ 90°, decomp @ 130°, explodes @ 210°, bp: 151.0°.
d: 1.77, vap. press: 1 mm @ 36.0°, vap. d: 7.6.

THR = VERY HIGH via iv route.

CHROMIUM CHLORIDE (II). Syn: chromium dichloride. CrCl2, mw: 122.9.

Acute tox data: Oral LD₅₀ (rat) = 1870 mg/kg. [3] THR = MOD via oral route. See also chromium compounds.

CHROMIUM CHLORIDE (III). Syn: chromic chloride. CrCl₃; mw: 158.4, bp: 1300° (subl).

Acute tox data: Oral LD₅₀ (rat) = 1870 mg/kg; dermal LD₅₀ (guinea pig) = 202 mg/kg. [3]

THR = HIGH via dermal and MOD via oral routes. Violent reaction with Li. [19]

CHROMIUM CHLORIDE (IV). See chromium tetrachloride.

CHROMIUM COMPOUNDS. Chromic acid and its salts have a corrosive action on the skin and mu mem. The lesions are confined to the exposed parts, affecting chiefly the skin of the hands and forearms and the mu mem of the nasal septum. The characteristic lesion is a deep, penetrating ulcer, which, for the most part, does not tend to suppurate, and which is slow in healing.

Small ulcers, about the size of a matchhead or end of a lead pencil may be found, chiefly around the base of the nails, on the knuckles, dorsum of the hands and forearms. These ulcers tend to be clean, and progress slowly. They are frequently painless, even though quite deep. They heal slowly, and leave scars. On the mu mem of the nasal septum the ulcers are usually accom-

anied by purulent discharge and crusting. If exposure ontinues, perforation of the nasal septum may result, ut produces no deformity of the nose. Chromate salts re recog care of the lungs, nasal cavity and paranasal inus, also exper care of the stomach and larynx. [14, 3, 95, 62] Hexavalent compounds are said to be more oxic than the trivalent. [61, 60, 26, 62, 63, 64] Eczemaous dermatitis due to trivalent chromium compounds as been reported.

ROMIUM DIFLUORIDE. See chromous fluoride.
ROMIUM FLUORIDE (III). CrF₃, mw: 109.
HR = HIGH via oral and sc routes. See also chromium compounds. Corrosive.

ROMIUM FORMATE. Crystals. Cr(CHO₂)₃, mw: 87.1.

HR = See chromium compounds.

ROMIUM METAL AND ALLOYS OF IRON, ICKEL AND COBALT.

HR = A recog carc. [3, 6] See chromium and nickel compounds.

ROMIUM MONOARSENIDE. Gray, hexagonal rystals. CrAs, mw: 126.92, d: 6.35, @ 16°.

HR = See arsenic and chromium compounds. ire Hazard: See arsine.

explosion Hazard: Dangerous; when heated to decomp or on contact with water, steam, acid or acid fumes, will react to produce toxic and flam vapors of arsine

ROMIUM MONOBORIDE. Orthorhombic, silvery rystals. CrB, mw: 62.83, mp: 2760°, d: 6.17.

HR = See chromium and boron compounds.

- ire Hazard: Sec boron hydrides.

xplosion Hazard: See boron hydrides.

isaster Hazard: Dangerous; on contact with water, steam, acid or acid fumes, will react to produce toxic and flam vapors of boron hydrides.

ROMIUM MONOPHOSPHIDE. Gray-black crysals. CrP, mw: 82.99, d: 5.7 @ 15°.

THR = See chromium compounds and phosphides. ire Hazard: Dangerous; upon contact with moisture, acid or acid fumes, phosphine is evolved. See ____ phosphine.

xplosion Hazard: See phosphides and phosphine. isaster Hazard: Dangerous; see phosphides.

LIROMIUM OXIDE III. Syn: green chromium oxide. r₂O₃, mw: 152.

HR = HIGH via inhal route. An exper (S) carc. [3, 6] Reacts violently with ClF₃, glycerol, Li, OF₂. [19]

ROMIUM OXIDE IV. See chromic acid.

IROMIUM OXYCHLORIDE. Syn: chromyl chlozide.* Dark red liquid, musty burning odor. CrO2Cl2, mw: 154.92, mp: -96.5°, bp: 115.7°, d: 1.9145 @ 25°/4°, vap. press: 20 mm @ 20°.

Acute tox data: sc LD_{1.0} (mice) = 545 mg/kg. [3]

THR = HIGH via sc and inhal routes. A strong irr. Hydrolyzes to form chromic and hydrochloric acids. See chromium compounds. Reacts violently with alcohol, ether, acetone, turpentine, NH₃ (Cl₂ + C), F₂, P, PCl₃, NaN₃, S, SCl. [19]

Disaster Hazard: Dangerous; see chlorides.

CHROMIUM-2,4-PENTANE DIONE DERIVATIVE. Syn: acetylacetonate of chromium. A solid.

Cr(C₅H₇O₂)₃, mw: 349.33, mp: 216°, bp: 340°.

THR = See chromium compounds.

CHROMIUM PICRATE. Solid, Cr[C₆H₂OH(NO₂)₃]₃, mw: 739.4.

THR = See chromium compounds.

Fire Hazard: See nitrates.

Explosion Hazard: See explosives, high, and nitrates. Disaster Hazard: See nitrates.

CHROMIUM POTASSIUM SULFATE. See chrome alum.

CHROMIUM SULFATE. See chromic sulfate.

CHROMIUM TETRACHLORIDE. CrCl₄, mw: 193.8. THR = HIGH via inhal and oral routes. See chromium compounds and chlorides. Violent reaction with Na or K. [19]

CHROMIUM TETRAFLUORIDE. Brown, amorphous, hygroscopic mass, sol in water with hydrolysis. CrF₄, mw: 128.01, d: 2.89, mp: 200°, bp: approx 400° evolving intensely blue slame.

THR = HIGH irr via oral and inhal routes. See also chromium compounds.

Disaster Hazard: Dangerous; see fluorides.

CHROMIUM TRIAMMINO TETROXIDE.

Cr(NH₃)₃O₄, mw: 167.

THR = See chromium compounds. Incandesces when heated. Detonates on impact. [19]

CHROMIUM TRIOXIDE. See chromic acid.

CHROMOMYCIN A3. Isolated from streptomyces griseus.

THR = HIGH via oral and inhal routes. An exper teratogen. [3]

CHROMOUS ACETATE. Red crystals, Cr(C₂H₃O₂)₂, mw: 170.10.

Acute tox data: Oral LD₅₀ (rat) = 11,260 mg/kg. [3] THR = LOW via oral and inhal routes. See chromium compounds.

CHROMOUS BROMIDE. White crystals, CrBr₂, mw: 211.84, mp: 842°, d: 4.356.

THR = See chromium compounds.

CHROMOUS CHLORIDE. See chromium chloride II.

For Countermeasure Information and Abbreviations see the Directory at the Beginning of this Section.

516 COPPER-y-CHLOROACETO ACETANILIDE

Acute tox data: Oral LD₅₀ (rat) = 140 mg/kg; oral LD₅₀ (human) = 200 mg/kg. [3]

THR = HIGH via oral and inhal routes. Used as a fungicide. Also a trace mineral added to animal feed. [109] See copper compounds and chlorides. Can react violently with K, Na. [19]

COPPER-y-CHLOROACETO ACETANILIDE. Solid. Cu(C₈H₇ CINO)₂, mw: 400.7.

THR = See copper compounds, acetanilide and chlorides.

COPPER CHROMATE, BASIC. See cupric chromate, basic.

COPPER COMPOUNDS. As the sublimed oxide, copper may be responsible for one form of metal fume fever. Inhal of copper dust has caused, in animals, hemolysis of the red blood cells, deposition of hemofuscin in the liver and pancreas, and injury to the lung cells; injection of the dust has caused cirrhosis of the liver and pancreas, and a condition closely resembling hemochromatosis, or bronzed diabetes. However, considerable trial exposure to copper compounds has not resulted in such disease.

As regards local effect, copper chloride and sulfate have been reported as causing irr of the skin and conjunctivae which may be on an allergic basis (Section 9). Cuprous oxide is irr to the eyes and upper respiratory tract. Discoloration of the skin is often seen in persons handling copper, but this does not indicate any actual injury from copper. There is an excess of cancer cases in the Cu smelting industry. [102]

In man the ingestion of a large quantity of copper sulfate has caused vomiting, gastric pain, dizziness, exhaustion, anemia, cramps, convulsions, shock, coma and death. Symptoms attributed to damage to the nervous system and kidney have been recorded. jaundice has been observed and, in some cases, the liver has been enlarged. Deaths have been reported to have occurred following the ingestion of as little as 27 g of the salt, while other victims have recovered after having taken much larger amounts, up to 120 g. Many copper-containing compounds are used as fungicides. Many Cu salts form highly unstable acetylides. Those formed in basic solutions from (Cu' salts + C₂H₂) are less stable than those formed from Cu^{**} salts. (Cu salts + hydrazine) react strongly, and with nitro-methane are explosive. [19]

COPPER-8-CUNILATE.

THR = See copper compounds.

COPPER CYANIDE. Syn: cupric cyanide. Yellowishgreen powder. Cu(CN)₂, mw: 115.61, mp: decomp before melting. Acute tox data: ip LD_{LO} (rat) = 50 mg/kg. [3 THR = HIGH via ip route. See cyanides and compounds.

tals, insol in water, sol in benzene. CuN₁(C mw: 259.8, mp: 270° (decomp).

THR = See copper compounds.

COPPER DICHLOROBENZOATE. Syn: CDC
THR = A toxic material. See copper compoused as a fungicide.

Disaster Hazard: Dangerous; see chlorides.

COPPER DIMETHYL DITHIOCARBAMATE Acute tox data: ip LD_{LO} (rat) = 25 mg/kg. [3] THR = HIGH via ip route. See carbamates an per compounds.

Disaster Hazard: Dangerous; when heated to de emits toxic fumes.

COPPER ETHYL XANTHOGENATE. See (xanthate.

COPPER FLUORIDE. Syn: cupric fluoride. I clinic blue crystals. CuF₂ · 2H₂O, mw: 137.60. d THR = See fluorides and copper compounds.

COPPER FLUOROACETIC ACID. CuFOOt mw: 141.7.

Acute tox data: Oral LD_{LO} (rat) = 10 mg/kg. ! THR = HIGH via oral and inhal routes. See fluo

COPPER GLUCONATE. Syn: cupric gluconate. blue, fine crystalline powder, sol in water, in acetone, alcohol and ether.

[CH₂OH(CHOH)₄COO]₂Cu, mw: 453.5.

THR = U. See copper compounds. A nutrient 2 dietary supplement food additive. Also a mineral added to animal feed. [109]

COPPER HYDRIDE. Red-brown crystals. Cul-64.55, mp: decomp @ 60°, d: 6.38_

THR = See copper compounds and hydrides.

COPPER HYDROSELENITE. Bluish-green. prisms. Cu(HSeO₃)₂, mw: 319.5.

THR = See selenium and copper compounds.

copper hydroxide gelatinous or ame phous powder. Cu(OH): 97.59, d: 3.368.

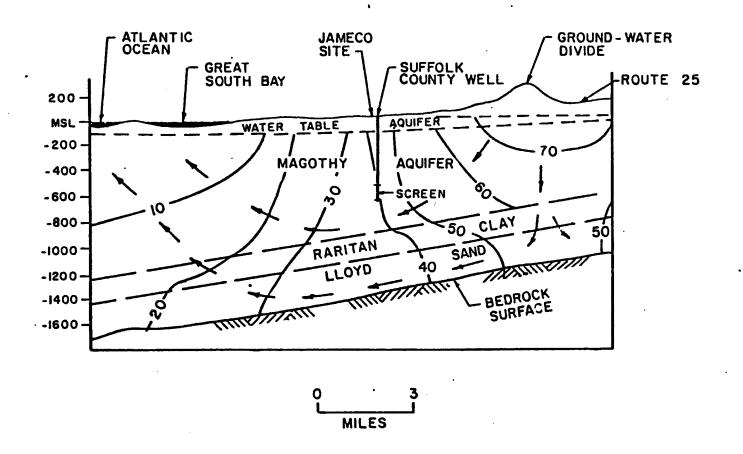
Acute tox data: Oral LD_{LO} (human) = 200 mg/ THR = HIGH via oral and inhal routes. A mineral added to animal feeds. Used as a fun [109] See copper compounds.

COPPER-8-HYDROXYQUINOLINE. See coquinolinolate.

COPPER MATTE NICKEL ORE.

THR = A recog carc. [14] See nickel compour

I For Countermeasure Information and Abbreviations see the Directory at the Beginning of this Section.

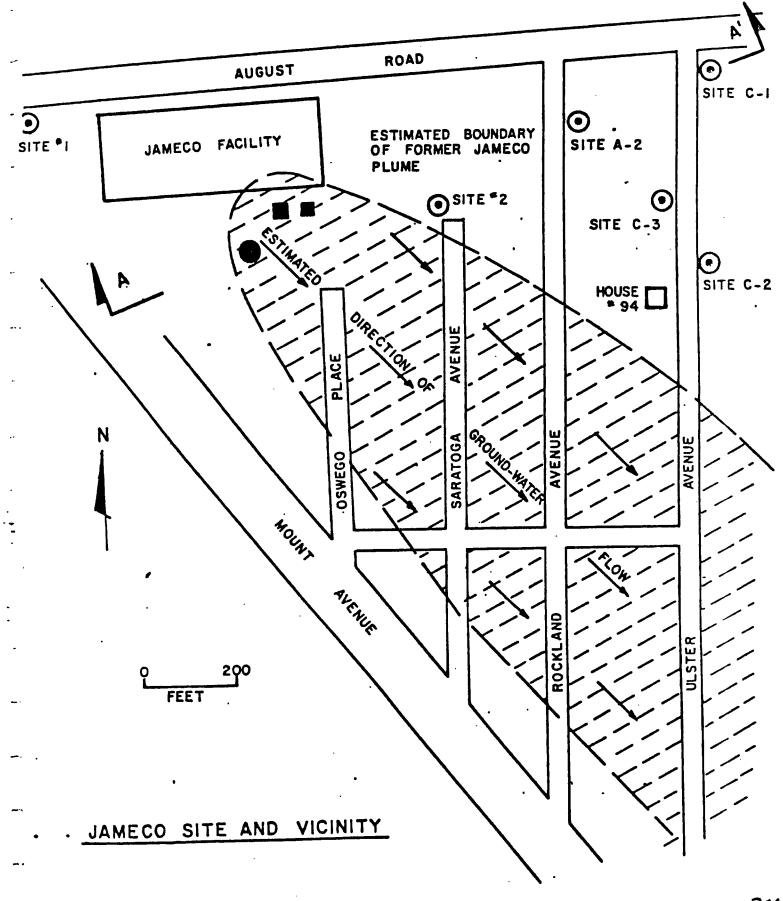


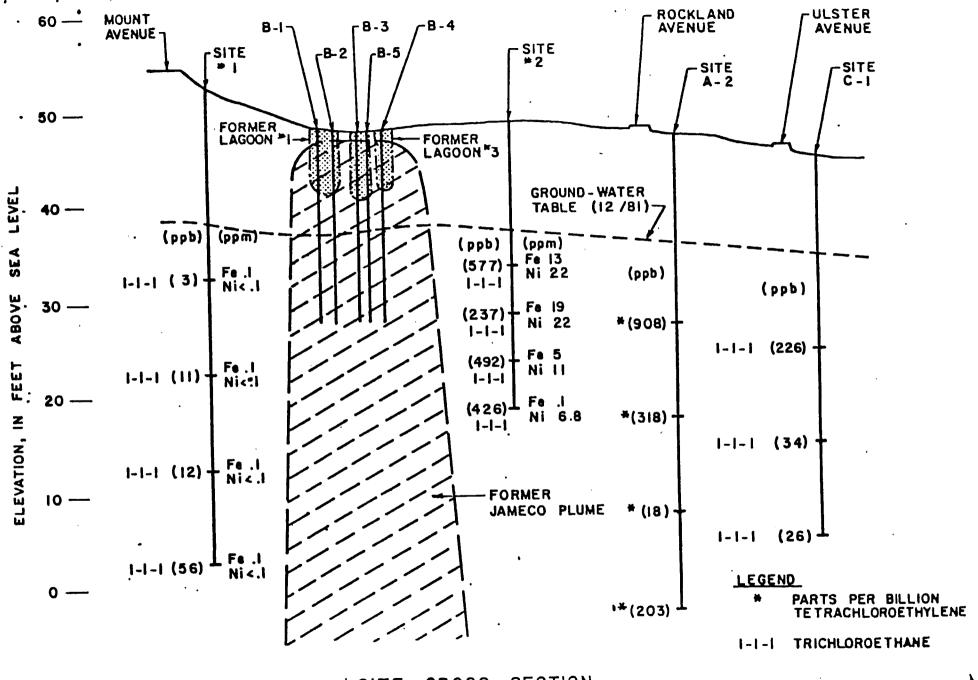
REGIONAL GEOHYDROLOGICAL CROSS SECTION - LOOKING WEST -

REFERENCE

MODIFIED FROM FIGURE 13 U.S.G.S.W.S.P. 1768

ン





L.M. PAGE 3/82

SITE CROSS SECTION -LOOKING NORTHWEST -

FIGURE 5



Table 1

WATER QUALITY DATA

Well Owner	Location	Findings
_ Mr. Lattimer	47 Oswego Place	Ground water contained 67 ppm hexavalent chromium
SCDHS	Site #2 (Figure 4)	Copper .06 to .19 ppm, Iron .1 to 19 ppm, Nickel 6.8 to 32 ppm, Lead Cadmium Chromium and Hex Chromium nondetectable (August 1979)
SCDHS	Site #1 (Figure 4)	Iron .1, Copper Chromium Nickel Lead Cadmium Hex Chromium nondetectable (August 1979)
SCDHS	Site #2 (Figure 4)	1-1-1 trichloroethane 237 to 577 ppb (August 1979)
SCDHS	Site #1 (Figure 4)	1-1-1 trichloroethane 9 to 12 ppb (August 1979)
SCDHS	Site C-1 (Figure 4)	1-1-1 trichloroethane 26 to 226 ppb (January 1979)
SCDHS	Site C-2 (Figure 4)	Tetrachloroethylene 28 to 565 ppb (January 1980)
SCDHS	Site C-3 (Figure 4)	Tetrachloroethylene 2 to 1430 ppb _ (January 1980)
SCDHS	Site A-2 (Figure 4)	Tetrachloroethylene 18 to 908 ppb (January 1980)
Ја тесо	B-1 (Figure 3)	Nickel 6.8 ppm, Copper .57 ppm, Chromium and Hex Chromium nondetectable (December 1981)
_Jameco	B-2 (Figure 3)	Nickel 3.4 ppm, Copper .15 ppm, Chromium and Hex Chromium nondetectable (December 1981)
Jameco	B-3 (Figure 3)	Nickel 0.28 ppm, Copper 0.25 ppm, Chromium and Hex Chromium nondetectable (December 1981)

Table 1 -continued-

WATER QUALITY DATA

Well Owner	Location	Findings
Jameco	B-4 (Figure 3)	Nickel 0.41 ppm, Copper 0.07 ppm, Chromium and Hex Chromium nondetectable (December 1981)
Jameco	B-5 (Figure 3)	Nickel 0.10 ppm, Copper 0.10 ppm, Chromium and Hex Chromium nondetectable (December 1981)
Jameco	B-6 (Figure 3)	Nickel 0.33 ppm, Copper 0.02 ppm, Chromium and Hex Chromium nondetectable (December 1981)
Jameco	B-7 (Figure 3)	Nickel 5.3 ppm, Copper 0.13 ppm, Chromium and Hex Chromium nondetectable (December 1981)

Table 2

Well Logs

1) Suffolk County Water Authority, Wyandanch, Long Island, NYS DEC #S-23848 Screen 12 inch diameter from 590 to 662 feet depth, Static Water Level 7 feet below ground, pumping water level 44 feet below ground when pumping 1543 gallons per minute for 8 hours.

Depth (feet)	Soil Description
0 - 87	Sand and gravel
87 - 100	Fine gray sand, lignite, mica
100 - 137	Gray clay, lignite
137 - 148	Medium brown sand
148 - 162	Gray clay
162 - 260	Brown and gray sand
260 - 288	Dark solid clay
288 - 308	Fine gray sand
308 - 324	Gray clay
324 - 453	Fine gray sand, lignite, mica
453 - 488	Dark solid clay
488 - 499	Fine gray sand
499 - 514	Gray clay
514 - 569	Gray and brown sand
569 - 590	Fine clayey sand ,
590 - 642	Fine gray sand, pyrite
642 - 658	Dark brown solid clay
658 - 669	Fine gray sand, lignite, mica

JAMECO INDUSTRIES INC. WYANDANCH, NEW YORK

REPORT EVALUATING WASTEWATER TREATMENT FACILITIES AT JAMCO INDUSTRIES, INC.

MAY 1984 -

PROJECT # 8103 - 2

JOHN E. CONNORS & ASSOCIATES
ENVIRONMENTAL ENGINEERING CONSULTANTS
475 Underhill Blvd., P.O. Box AA
Syosset, New York 11791

Since April 1982 all of the treated process water and all of the non-contact cooling waters have been combined just upstream of the distribution manhole at the subsurface leaching system. This was done to allow for the maximum hydraulic utilization of the forty eight pools. All of the treated process and cooling waters discharged by Jameco have been directed to the existing leaching pools since April 1982.

It is estimated that currently the total water flow to the leaching system is between 50,000 gpd and 65,000 gpd on production days or 35,700 gpd to 46,500 gpd on a seven day week average. It has been noted that the twenty four (24) pools closest to the plant operate at a 5 foot liquid depth during the week and that the twelve (12) farthest from the plant operate at 1 to 2 feet liquid depth during the week. All "full" pools have several feet of free board on Monday mornings.

The existing leaching system has sufficient capacity to infiltrate the total quantity of filtered process water and cooling water discharged from Jameco. Jameco is planning to clean the leaching pools again this year so that the existing pools are operating at their maximum capacity.

Current SPDES Monitoring

A composite effluent sampler has been used to sample the treated effluent from the Jameco wastewater treatment facility since the late summer of 1981. It should be noted that Jameco has increased the frequency of effluent monitoring to "once per week" instead of "twice per month" to allow for closer control of the operation of its treatment plant.

Treatment plant effluent data for the period of November 23, 1983 to January 26, 1984 are presented on table 1. This period corresponds to the startup and operation of a new "pilot plant" effluent sand filter installed to replace an old diatomaceous earth polishing filter. This equipment is discussed in more detail in a later section of this report.

Based on the weekly effluent composite sampling of the treatment plant effluent for the period of November 23, 1983 to January 26, 1984, there have been no violations of the SPDES effluent limits for:

COD	Cyanide
Hexavalent Chromium	Copper
Total Chromium	Nickel
Zinc	Iron

In addition there was a single excursion for lead (0.06 mg/l vs 0.05 mg/l).

SITE-11			
DESCRIPTION	POPULATION	HOUSEHOLDS	÷ (:
RING: 0.25 MILE(S)	0	0	Action
RING: 0.50 MILE(S)	4431	1422	,
RING: 1.00 MILE(S)			
RING: 2.00 MILE(S)			
RING: 4.00 MILE(S)	226413	69676	
SITE-13			
DESCRIPTION	POPULATION	HOUSEHOLDS	3-2
RING: 0.25 MILE(S)	1100	318	3 ~~
RING: 0.50 MILE(5)	2368	684	
RING: 1.00 MILE(S)	7380		
RING: 2.00 MILE(S)	39486		
RING: 4.00 HILE(S)	147564	11944	
SITE-15			
DESCRIPTION	POPULATION	HOUSEHOLDS	,
RING: 0.25 MILE(S)	0	0	Voneca
RING: 0.50 MILE(S)	3842	981	1120 1111 7.11 1
RING: 1.00 MILE(S)			40° 44' 31" Lat
RING: 2.00 KILE(S)			73° 21' 27" Long.
		53318	0
	DESCRIPTION RING: 0.25 MILE(S) RING: 0.50 MILE(S) RING: 1.00 MILE(S) RING: 2.00 MILE(S) RING: 4.00 MILE(S) SITE-13 DESCRIPTION RING: 0.25 MILE(S) RING: 0.50 MILE(S) RING: 1.00 MILE(S) RING: 2.00 MILE(S) RING: 4.00 MILE(S) RING: 4.00 MILE(S) RING: 0.25 MILE(S) RING: 0.50 MILE(S)	DESCRIPTION RING: 0.25 MILE(S) RING: 0.50 MILE(S) RING: 1.00 MILE(S) RING: 2.00 MILE(S) RING: 2.00 MILE(S) RING: 4.00 MILE(S) RING: 4.00 MILE(S) RING: 0.25 MILE(S) RING: 0.50 MILE(S) RING: 0.50 MILE(S) RING: 2.00 MILE(S) RING: 2.00 MILE(S) RING: 2.00 MILE(S) RING: 4.00 MILE(S) RING: 4.00 MILE(S) RING: 4.00 MILE(S) RING: 0.25 MILE(S) RING: 4.00 MILE(S) RING: 4.00 MILE(S) RING: 2.00 MILE(S) RING: 3842 RING: 1.00 MILE(S) RING: 2.00 MILE(S) RING: 2.00 MILE(S) RING: 2.00 MILE(S) RING: 3842 RING: 2.00 MILE(S)	DESCRIPTION POPULATION HOUSEHOLDS RING: 0.25 MILE(S) 0 0 RING: 0.50 MILE(S) 4431 1422 RING: 1.00 MILE(S) 15878 5092 RING: 2.00 MILE(S) 81477 25152 RING: 4.00 MILE(S) 226413 69676 SITE-13 DESCRIPTION POPULATION HOUSEHOLDS RING: 0.25 MILE(S) 1100 318 RING: 0.50 MILE(S) 2368 684 RING: 1.00 MILE(S) 7380 2168 RING: 2.00 MILE(S) 39486 11890 RING: 4.00 MILE(S) 147564 44944 SITE-15 DESCRIPTION POPULATION HOUSEHOLDS RING: 0.25 MILE(S) 0 0 RING: 0.50 MILE(S) 3842 981 RING: 1.00 MILE(S) 13794 3565 RING: 2.00 MILE(S) 61985 17490

15.19.22 >logout 1163.75 ARU'S, .15 CONNECT HRS LOGGED OFF AT 15.20.01 ON 280EC84

0

7

Source: Donnelley Marketing, 1984.

	– Jameco Indu		ne. teria	Vone.) Source: MysDAM
Site No.	Sheet No.	#1*	#2**	Comments
.1	57 🛊	No	Yes	Prime farmland within 2 but not 1 mile
3	70 🛊	Yes	Yes	Prime farmland within 3/4 mile
5	8 & 17 🛊	Yes	Yes	Active prime farmland in Suffolk County Agri- cultural District #1 adjacent to site
6	40 ≄	Но	No?	Mount Sinai area to N/E (Sheet 40) and area to east should be investigated - farmland is at the 2 mile range
8	64 & 65 ≄	No	No	
12	54 🗲	Yes	Yes	Nursery stock 700 ft. south; 40 acre vegetable farm is SW about 1.5 miles; within mile to the north
16	51 ≄	Yes	Yes	30 acre vegetable farm to the west; areas to the
17	17 🕏	Yes	Yes	All farmland prime; horse farm adjacent to site the west; also farmland within 3/4 mile to the North and Northeast
18	47 🕿	Yes	Yes	Prime farmland within 1.5 miles; vegetable farm within a mile at North Sea
23	K	Yes	Yes	Active agricultural land within 1/4 mile, active prime farmland within 1/2 mile - site is adjacent to Rensselaer County Agricultural District #7
24	*	Yes	Yes	Active prime farmland within 1/4 mile; site is ac jacent to Rensselaer County Agricultural District #3.

^{*}Distance to agricultural land in production within past 5 years, if 1 mile or less.

^{**}Distance to prime agricultural land in production within past 5 years, if 2 miles or less.

Soil survey of Suffolk County, USDA-SCS in cooperation with Cornell Agricultural Experiment Station issued 4/75—information obtained during telephone conversations with Suffolk County SWCD, and County USDA, Agricultural Stabilization and Conservation Service staff.

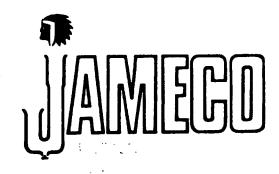
⁻ Not Applicable; soil survey mapping completed-awaiting publication--information obtained during telephone conversation with the USDA-SCS, District Conservationist with the Rensselaer County SWCD.

see	File for more detailed Habitats and Report the file and critical	d informat ts. A topo hobitats	sion regarding significant map for each site is in are indicated. 25 1/2/
	ficant Habitats - Phase		LEW
•			ant Habitat Reports and
-	Maps	in (applicable)	County, Division of
- · ·		· · · · · · · · · · · · · · · · · · ·	fe, Significant Habitats
	Unit.	Nose	21.
-		Nosse Suffi King	olk s
	Site Number	Rense	Report
	_2		Island Park
			Cinder Island; No. Cinder Island
			Gull Island
			East Channel Island-
		•	subcolony 1 and 2; Garrett
-			Marsh
		- 30	Pearsalls Hassock
	3		Manorville Hills + (just out de
-			1 mile radius-check map)
			Rock Hill- Radar Hill
***			Pine Barrens
	4	None	
	5	None	
	6		Port Jefferson Harbor
	7	None	and the second of the second o
•	8	None	
	9		reat South Bay 216

Significant Habitats (cont.) pg 2 of 2 25

_ Site 1	lumber	Rep	port
10_		None	
		None	
- 12		None	
13		None	
. 14		None	<u></u>
* 15	Jamero Industries, Inc.	None	
16		None	
		None	
18_		52-58	North Sea Harbor
19		None	<u> </u>
20		None	
·21		None	
22		None	
. 23		None	
- 2.4		42-1	HOOSIC RIMOR & Associated
			Lowlands
grad			:
· · · · · · · · · · · · · · · · · · ·			
and the second s			
en e	and the first terminates an extraordinate and the second s		





February 15, 1985

WOODWARD CLYDE CONSULTANTS, INC. 201 Willowbrook Blvd. P.O. Box 290 Wayne, NJ 07470

Attention: Mr. Christopher Motta

Dear Mr. AMotta:

This letter is in response to the request for information regarding Preliminary Field Investigations at Inactive Hazardous Waste Disposal Sites.

The following information is presented in the same format as in the December 24, 1984 letter to me from Charles Goddard of the NYSDEC.

- A. Generators of waste deposited at the site: JAMECO INDUSTRIES, INC.
- B. Type of waste: Hazardous Waste Solid NOS ORM-E
- C. Period of time site was operated: 1964 1975
- D. Description of operational practices: See attached sheet page 17 of an old plating manual.
- E. Testing, monitoring or remedial action: Both sludge drying beds were cleaned out and covered with clean soil in 1975. Test bores taken last year confirmed that fact.
- F. Health or environmental problems: None

If you have any questions regarding this matter, please don't hesitate to call me.

Your very truly,

JAMECO INDUSTRIES, INC.

Frankl & me

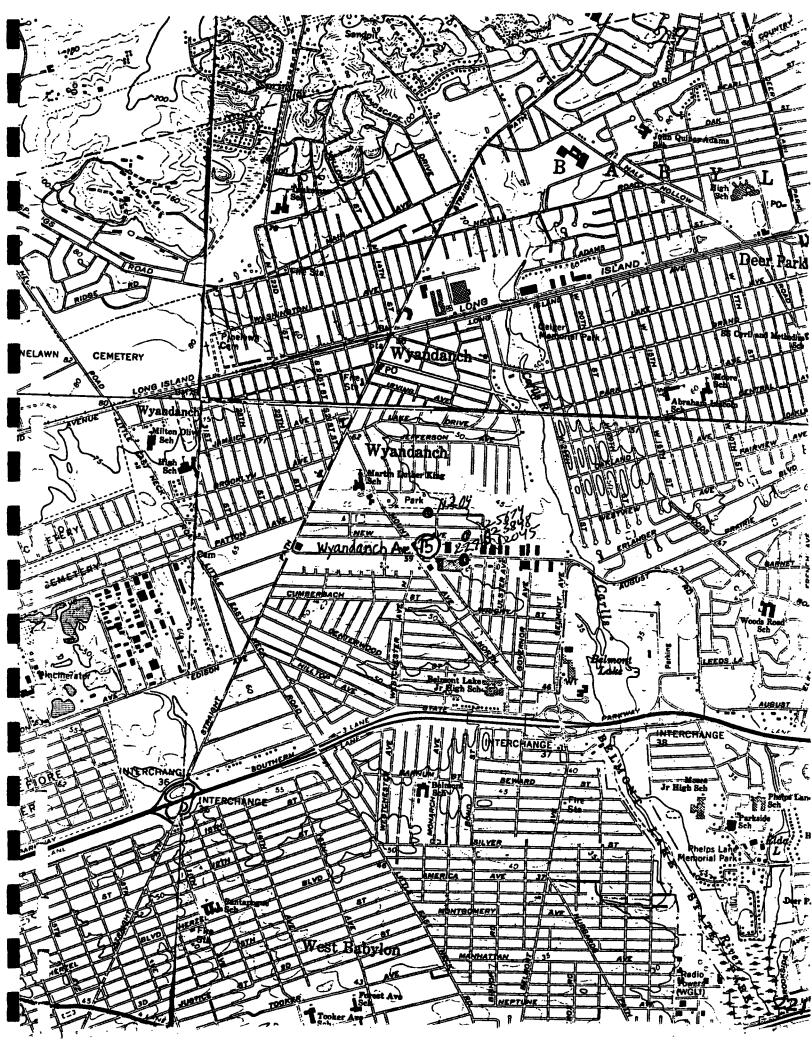
Donald Dowden

DD: DL encl.

WOODWARD-CLYDE CONSULTANTS, INC. RECORD OF TELEPHONE CONVERSATION

Date: 11 February 1986 Time: 11:50an: Project No. 8964547-
Re: Well data for Wyandonch Avenue Wils (for James Sie)
Call Placed By: L. Wade Of: Wayre NJ.
To: Mr Dassler Of: Suffick Country Water Action of Science (516) 589-5200
Notes: (516) 589-5200 (SCOP)
Wyardanch Avenue public supply wells #1 (23848)
and #2 (25674) are located not more than Foster
north of Jameco Industries Inc. These two public supply
wells are the only wills on sike and both are corrected
operating confirmed well data includes:
Well # 1 (23 848) - 634. 5' doep: screen: 558'-631'; Magotay aguit
water at 6.63' in 1982
Well #2 (25674) - 625.5' deep; screen 556'- 622'; Magothy agent;
water at 9.01' in 1982
·
Signed: SELVA de





WOODWARD-CLYDE CONSULTANTS

RECORD OF TELEPHONE CONVERSATION

(II) 1607 1500 VILLED
Re: Sik his by at Jameso Time: 1550 Job No. 82(4)33
Re: Jill his by at Jame to
Call To: Call From:
Name: Vin fin
Name:
Phone No: 516-451-4634
Notes: _ avour and penching polo is use at some trip.
- 19, hay pool thes new as not some ones as Those when
Notes: and perchine polo or use at some thing. Liquid of polo this new que not some ones as those when Lagram "existed (before 1975). Traspect for aretimals was Lancy system: "chlorial prespitation to grassystem" for metals.
Lancy system: white prespectation to by star for secolo.
•
Signed: //iz/w//ke/ke/

TABLE 2.—Summary of the rock units and their water-bearing properties, Long Island, N.Y.—Continued

stem	Series	Geol	logie unit	Hydro- geologic unit	Approxi- mate maximum thickness (feet)	Depth from land surface to top (feet)	Character of deposits	Water-bearing properties
-		IInec	nformity					
80° 4	Uprer Cretaceous	Clay member		Raritan clay	300	70-1, 800	Clay, solid and silty; few lenses and layers of sand; little gravel. Lignite and pyrite are common. Colors are gray, red. and white, commonly variegated.	Poorly to very poorly permeable; constitutes confining layer for under- lying Lloyd aquifer. Very few wells produce appreciable water from these deposits.
		Raritan Forma- tion	Lloyd Sand Member	Lloyd aquiler	800	300-1, 800	Sand, fine to coarse, and gravel, commonly with clayer matrix; some lenses and layers of solid and silty clay; contains thin lignite layers and iron concretions locally. Locally, has gradational contact with overlying Baritan clay. Sand and most of gravel are quartzese. Colors are yellow, gray, and white; clay is red locally.	Poorly to moderately permeable. Specific capacities of wells in the Lloyd generally range from I to about 25 gpm per foot of drawdown, rarely are as much as 80 gpm per it. Water is confined under artesian pressure by overlying Baritan clay; generally of excellent quality but has high iron content locally. Has been invaded by salty ground water locally in mechanism per morth above, where aquiler is mostly shallow and overlying clay discontinuous. Called deep confined aquiler in some earlier reports.
mbrian			nformity——edrock	Bedrock	•••••	0-2,700	Crystalline metamorphic and igneous rocks; muscovite-biotite schist, guess, and granite. A soft clayey zone of weathered bedrock locally is more than 100 ft thick.	Poorly permeable to virtually impermeable; constitutes virtually the lower boundary of ground-water reservoir. Some hard, fresh water is contained in joints and fractures, but is impracticable to develop at most places; however, a few wells near the western edges of Queens and Kings Counties obtain water from the bedrock.

The fresh-salt water interface is not a sharp indary. The horizontal distance over which the sc ed-solids content of ground water changes m completely fresh to completely salty is genlly on the order of 2-3 thousand feet near the shore of Long Island. Over this distance, issolved-solids content of the ground water reases at first gradually in the direction of the figround water and then more rapidly.

The fresh-salt water interface is a complex streamline surface, and fresh ground water discharging into the ocean and bays moves parallel to the interface and not across it. The hydrodynamics of a stable interface and, to an even greater degree, an unstable interface that changes position in response to changes in head within the ground-water reservoir, is complicated and beyond the scope of this report. (See Lusczynski, 1961; Cooper, 1964; and Kohout, 1964.)

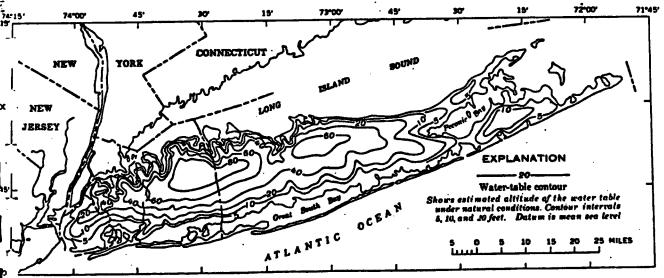


Figure 9.—Estimated average position of the water-table under natural conditions.

REPORT TO:

JAMECO INDUSTRIES, INC.

Results of Soil and Water

Testing at the Wyandanch New York Plant Site

On December 22, 1981 Allee King Rosen and Fleming, Inc. was retained to obtain soil and water samples to ascertain if abandoned waste beds at the Jameco Industries, Inc. Wyandanch, New York plant site still contained sludge and if selected metals historically discharged by Jameco were impacting groundwaters under the site.

TREATMENT PONDS

On a site visit performed on 23 December 1981, the location of the abandoned waste beds were defined through examination of engineering site plans and interviews with employees familiar with the abandoned waste disposal system and its operation. From these data, a site plan was developed (Figure 1) presenting the location of the effluent ponds. Little physical evidence of the ponds remains with the exception of a fence post located at the east side of the southern face of the one-story block building. The fence was located at the bottom of the berm of Pond 2. The berm was reported to be 5 to 6 feet above grade and 12 feet wide from top to toe. The bottom of the pond was reported to be 2 to 3 feet below grade.

Pond 1 was located by reference to Pond 2, the current waste treatment plant, and the Main Building. The size of the berm was reported as being of the same dimensions as Pond 2. The diameter of Pond 1 was estimated to be 5 feet larger than the width of Pond 2.

A third pond was reported to have been dug because Pond 2 experienced overflows during severe rainfall. Roof drainage from the one-story block building discharged into Pond 2. the purpose of this pond was to catch the overflows from Pond 2 to allow infiltration of all effluent.

The effluent disposal system was reported to have been operated by discharging into the primary disposal Pond 1 for periods of approximately two years until infiltration would no longer keep up with the discharge. The discharge was then diverted to Pond 2. Pond 1 was then allowed to dry for a period of approximately six months after which a contract disposal firm removed the sludge for off-site disposal. The discharge was then returned to Pond 1.

While Pond 2 was in operation, the effluent, diluted with rain water from a roof drain, periodically overflowed. To prevent surface discharge of this mixture, a wide ditch was dug to the east of the pond. This containment area, Pond 3, is reported as having been 12 to 24 inches deep with a berm of 2 to 3 feet in height. Addition of Pond 3 eliminated over-flows from contained infiltration areas.

The operation of an infiltration disposal system for plating waste effluents is a common method for waste disposal wherever the soils will permit. If soils are not permeable, settling followed by surface discharge is used.

The ponds of an infiltration system operates in two ways. First, metallic salts precipitated in the chemical treatment system are removed by the combined action of settling and filtration. When first operated after cleaning, the solids are removed through filtration by the soil, the same method used to remove aluminum salts used in drinking water treatment systems. Once a sludge blanket develops, the sludge acts as a fine filter for the effluent prior to entry into the soil.

The second purpose of the ponds in the treatment system is to dispose of the treated effluent. In arid regions where evaporation exceeds rainfall, ponds are lined and sized to dispose of the liquid by evaporation. Where surface waters are available, discharge is directed to these waters. In the case of Jameco, the only nearby surface water, Belmont Lake, has long been a recreational facility unsuitable for an industrial discharge. Thus, the use of a groundwater discharge.

During periods when Pond 2 overflowed into Pond 3, Pond 2 would remove a large portion of the solids through settling with only a small quantity of solids being discharged into Pond 3. These residual solids would then be removed through filtration as the overflow infiltrated into the ground.

SAMPLING PROGRAM

The purpose of the sampling program was twofold; to verify that sludge deposits were removed from the the ponds as required by the 1975 National Pollution Discharge Elimination System permit and alleged not to have been performed in a pending legal action; and to determine if any residual heavy metals are leachinginto the groundwater at levels which would contravene groundwater quality standards.

The achieve the purposes of this sampling program, soil borings were taken at various locations and depths throughout the site (Figure 2). The location of these borings were selected to obtain a background sample upgradient of the waste disposal systems (historic and current), two borings in the primary disposal Pond 1, two borings in the secondary Pond 2, and downgradient wells outside the area of the pond in which sludge was present. The downgradient boring for Pond 1 was located at the southern edge of the berm because the area south of the waste treatment pond is now used for the effluent disposal system leaching system. The Pond 2 downgradient well was located close to the pond because this area was identified as the location where previous soil samples were obtained by others.

Sampling was conducted on the 29th and 30th of December 1981, under the direction of Mr. Leo Page. The drilling was performed by Warren George, Inc. The sampling procedure is presented in Attachment 1. Soil samples were obtained every two feet at each location to depths of approximately 20 feet. Boring logs were prepared by the driller and Mr. Leo Page (Attachment 2 and Appendix A of Attachment 1 respectively). The soil samples obtained were analyzed for four metals (nickel, copper, total chromium and Hexavalient Chromium) based upon effluent composition. Additionally, at the completion of drilling, a groundwater sample was obtained from each boring.

SAMPLING RESULTS

The results of the soil and water sampling are presented in Figures 3 thru 5 and Attachment 3. The soil tests show no evidence of sludge deposits with heavy metals concentrations elevated to levels consistent with leaching of treated effluent. Sludge deposits would be expected to have concentrations of 5,000 to 10,000 mg/gr while the highest concentration found was only 1,460 mg/gr.

Metals in soils can result in two ways. First, natural metal compounds occur in all soils as a basic component of the soil structure. The second source of metals in soils is from adsorption of dissolved metals from groundwater or infiltrating water (i.e., highway and urban runoff or septic tank effluents). The adsorption process is a complex physical /chemical reaction with ion-exchange being the dominant force. In sands, as found at the Jameco site, iron oxide deposits on the sand particles are reported to be the exchange medium.

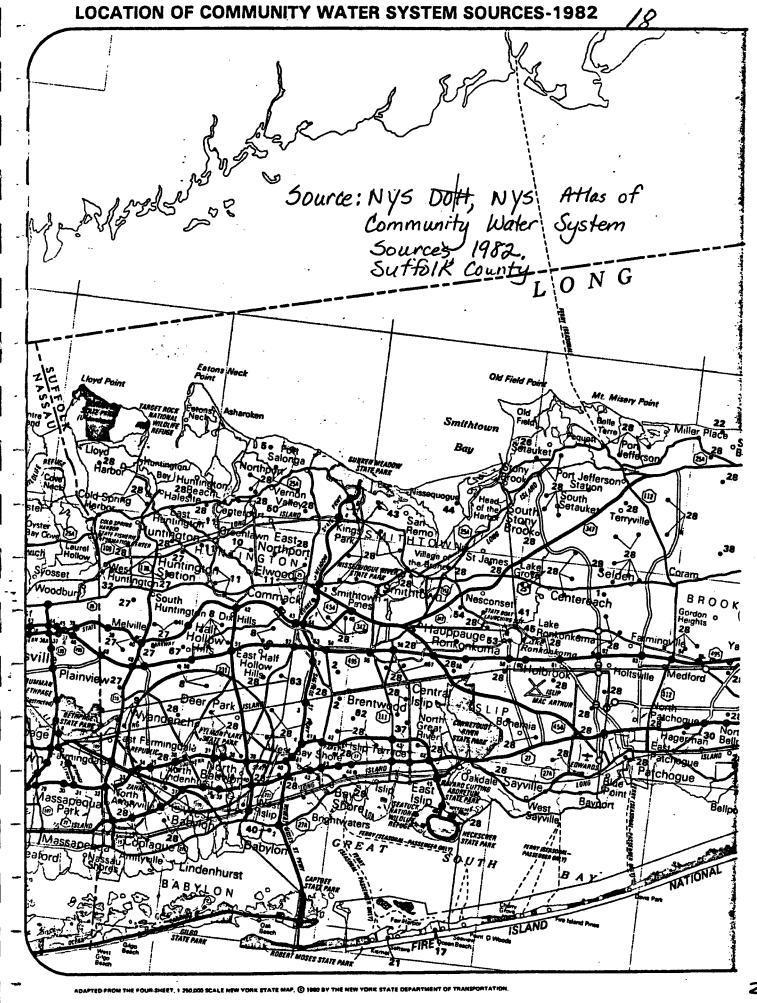
The background boring (B-6) contained low levels of nickel, total chromium and and copper and no hexavalient chromium. The two borings in Pond 1 (B-1 and B-2) have nickel, copper in total chrome levels higher than the background but well below what would be expected if sludge were present. The concentrations in the lower soil levels drop off consistent with long-term application of dilute effluent. Pond 2 shows similar results with the exception of higher concentrations at the two-foot level. Although this area showed the highest total chromium concentration, levels were not consistent with sludge deposits.

The downgradient borings (B-4 and B-7) showed significantly lower concentrations of metals in the soil than those directly under the ponds. This indicates that little lateral movement of infiltrated water above the groundwater table has occurred and that below the groundwater table the capacity of the soils to absorb metals has not been exhausted. This second fact leads to the conclusion that if any migration of metals occurred during the period of use of these ponds, the impact beyond the immediate vicinity of the ponds is limited and that no impact beyond the property from this source is likely.

No hexavalient chromium was found in any of the soil samples, significant as this form of chromium exhibits toxicity while other states are

Inci, Logo misoni

22





SUFFOLK COUNTY

30	FFOLK COUNTY										•
ID NO	COMMUNITY WATER SYSTEM	POPULATION		SOURCE							
Munic	cipal Community										
1	Bevon Water Corporation	1150.		.Wells							
ż	Brentwood Water District	. 25812.	•	.Wells .							
3	Bridgehampton Water Company	1916 .	•	.Wells						•	
4	Captain Kidd Water Company	580 .	•	.Wells							
5	Crab Meadow Beach	50 . h) 10b	•	Wells							
6	Culross Corporation (Culross Beac Dering Harbor Village	130	•	Wells							
7 8	niv Hills Water District	. 30000.	•	.Wells							
ğ	East Farmingdale Water District.	7850.	•	.Wells							
1Ó	a				*****				Bondo	He I I e	
	Corporation.	250 .	•	.Barlow,	MIGGIE	ra rms	and ir	easure	ronus,	Wells	
11	Croonlawn Water District	. 40000.	•	.Weils					•		
12	Greenport Village	9500	•	.Wells							
13 14	Hawthorne - Maple Civic	,,,,,,,	•								
14	Association	50.		.Wells							
15	Herod Point Association	80.	•	.Weils							
16	North Shores Water Company	5000.		.Wells			•				
17	Ocean Beach Village	155.	•	Wells							
18	Reeves Beach Water Company Riverhead Water District	9300	•	Wells							
19	Roanoke Water Corporation	201.	•	Wells							
20 21	Saltaire Village	35.		.Wells							
22	Scott's Beach Water Company	342.		.Wells							
23	Shelter Island Heights Association	n 498.		.Wells						•	
24	Shirley Water Works	3400.		.Wells							
25	Shorewood Water Corporation	10000.	•	.Wells							
26	Soundview Association South Huntington Water District.	51260	•	Wells							
27	Suffolk County Water Authority	900000	•	Wells							•
28 29	Sunhill Water Corporation	3959.	:	.Wells							
30	Swan Lake Water Corporation	1485.		.Wells							
31	Terrace-on-the-Sound	400.	•	.Wells							
32	Woodbury Triangle Corporation	800.	•	.Wells							
Mon-A	Aunicipal Community										
33	Aquebogue Mobile Home Court	120.		.Wells							
34	Brookhaven National Labs	3373.		.Wells				_			
35	Calverton Hills Owners							•			
	Association	897.	•	.Wells		- *					
36	Cedar Lodge Nursing Home	100.	• .	.Wells							
37	Central Islip Psychiatric Center.	4727.	•	. WE 15							
38	Crest Hall Health Related Facility	120.		.Wells							
39	East Quoque Mobile Estates	160.	:	.Wells							
ŭó	Good Samaritan Hospital	NA.	•	.Wells							
41	Greis Mobile Park	70.		.Weils						_	
42	Hampton Gateway Apartments	304.	•	.Wells	•					•	
43	Kings Park Psychiatric Center	3100.	•	Wells							
44	Knox School	57.	•	.Wells							
45 46	loior's Mobile Park	350.		.wei.is							
40	little Flower Children's Services	i 150.		.wells							
48	Montauk Air Force Station	10.	•	.Weils							
49	Naccentio Trailor Park:	78.		.Wells							
50	Northport VA Hospital	3000.	•	Wells							
51 50	Oak Park Trailer Park Oakland Ridge Mobile Park	50. 74	•	.Wells							
52 51	Park Lake Rest Home	46.	•	.Wells							
53 54	Poscock Alley.	35.	•	.weils							
55	Peronic River Trailer Park	90.	•	.WGIIS							
56	Paccaic View Adult Mobile Home Pa	rk 70.		.wells							
57	Pinecrest Garden Apartments	392.	٠	Wells							
58	Ramblewood Mobile Homes		•	. Wells							
59	Rocky Point Family Housing	55.	:	Wells							
60 61	Rollin Mobile Homes	220.		.Wells							
62	S+ Insenh Convent - 1.000							•			
	Island University	1177.	•	.Wells			•	•			
63	Sam A Lowison Start Center	40.	•	, Wells							
64	South Bay Adult Home	1000	•	Wells							
	Southampton College Speonk Mobile Home Park	50.	:	Wells							
66 67	suffolk Developmental Center	3500.		.weiis							
68	Three Mile Harbor Trailer Park	40.	•	.weiis							
69	Thurm's Mobile Estates	450.	•	.we:IS				,			_
70	usco Station - Moriches	23.	•	.weiis		NUS	DOH	198	2 1	us	229
71	Wes Dubicki Apartments		•	, me i 13		'.7.	JU.,	1	, ,	icis Ly wol	٠ - ١
						AHla	s of	Com	muni	TO WO H	:)
	0,000 78					, , , ,	- "			/	

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES

STANDARD WORKSHEET FOR DETERMINATION OF

TOXICITY OF CONTAMINATED POOLS

ELD NO.: R3-DO3-16	TAND TAXA	LAB NO.: 35		DATE: /8/	m183
PRESS OR LOCATION: WY	included days	- Company			
EMARKS/INSTRUCTIONS:	دسولت ابدی م	s 40 pools 1	myliera		
/ CAMETER OVER LIMIT: with mg/l:	سيدروسك وبزرمصد			illrichhlue P 65/18 h 60	1,400 (50)
TOXICITY MULTIPLIER	(TM) =	2.5		2.5	2.3
. STRENGTH MULTIPLIER	(SM) =	2			_5_
DISTANCE TO GROUNDWAT	TER (GW)=	4		<u> </u>	4
斯HYDROGEOLOGICAL ZONE	(HZ) = .				
WELL (DW)	= X	3		3	3
TM X SM X GW X HZ X I	= WC				150
LIf Score is greater to pump out is required.	han 200,	• .			
-		NAME:	David	060	<u>.</u>
F1		SIGNATURE:	P	ie	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION ALBANY, NEW YORK 12233

INDUSTRIAL CHEMICAL SURVEY

Own) ELEPHONE Alea 3	ZIP CO	1798	-
 		41	-
onnaire is	to be com	pleted	•
····			
	└☐ Yes	⊠ No	
	; ;	•	
96	Yes	□ No	;
t	 157 w		
• • • • •	Yes Yes Yes Yes Yes		
	Yes Yes	□ No	
		•	•
eluse.		····	•
İ	ļ		:
1			:
 	Active	Inactive	:

DAPLETE AND RETURN TO THE ABOVE ADDR	PARTI		1	
AME	ESS, ATTENTION; INDUSTRIAL CHEMICAL SUR	SIC CODE (II	ton at 1	
ICCO INDUSTRIES		sic cope (ii	Known)	OFFICE USE ONLY
MAILING ADDRESS	CITY			
- DANCH AVE	WYANDANCA	STATE N. >	,	ZIP CODE
(If different)	CONTACT NAME	70.7		11798
ME	ISRAEL GAJER	, ,	TELEPHONE ATER	
LSS (If different)	CITY			6 643530
SAME		STATE	·	ZIP CODE
ISINESS OF PLANT				
MANUFACTURING.				41
ni company, give name and addresses of a	all divisions, subsidiaties, etc. located in Nev	York State A consiste		
ibmitted for each.)		datate dat	istionnaire is to	be completed
]•				
·				
	•	•		
	PART Discharge Information			
es your plant discharge liquid was	les to a municipally owned sanitary s	Aug		
ne of System	's to a monicipality owned sanitary s	ewer system?	![Yes No
	- Carried		1	•
ueral (NPDES) permit?	liquid wastes under a State (SPDES)	10	į.	
	Permit Numbe	00733		Yes DNO
Nou discharge liquid wastes in any	y other manner?	. [0]0]\J	NI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
am			· • • • • • !L	Yes 🖾 No
y of the above are "Yes":			!	
o you discharge process or chemic	cal wastes — (i.e. water used in manu	lacturing including di-	l Lage I	
The state of the s	naicill			7 v
_ 3 you discharge non-contact coolin	ng water?			Yes No
no you discharge collected storm di	rainage only?	• • • • • • • • • • • • • • • •		
) you discharge sanitary wastes of	nly?	• • • • • • • • • • • • • • •	• • • • • ![] Yes 🔲 No
	***************	• • • • • • • • • • • • • • •	۲۰۰۰۰۰۱	Yes No
is your facility have sources of pos	sible emissions to the atmosphere?			
Location and Facility Code as sh	to the atmospheret	• • • • • • • • • • • • • • • •	······· 堰	Yes No
ol Application for Permits and Ce	estification (1/ applicable)		1	_
]]1	-
Name and Address of Firm (Includ	ing yourself) removing wastes other th			•
		an office and calefelt	a refuse. I	
SCA Chemical	Services Co.	!	i	
- Moster Ave.	City Stale Stale	Code	÷	
Name	HEWIFK NJ CT	<u>र्ट्</u> य		
			:	• •
Address	City State Zip	Code		
~- L				> ₹
ocation(s) of Landfill(s) owned an	nd used by your facility		1	nactive Active
•	is used by your facility.		. !	ive
,			l	
			1	
			j	
_this facility:				
inufacture Pesticides or Pesticide	Product Ingradiants			
oduce Pesticides or Pesticide Pro	duct torredients?	• • • • • • • • • • • • • •	'□	Yes 🗵 No
Simulate Pesticides?	oper inflications	• • • • • • • • • • • • • •		Yes No 2
"Trackage Posticidor?	* * * * * * * * * * * * * * * * * * * *		'T	Yes W No

INDU!	STRIAL	L OR MI	NING	IMINATION	SYSTE	M (SPDES) PERMIT
LIE FEATRAL OF HODIES	-710h C	TIME DE CAN	0.4 455.45				-
IF RENENAL OR MODIFIC.	A HON, L	LEffective			TIVE DATE Expiration		DATE
- Samt (Corporate, Partnership or Individual)		_1	7	TPE OF OWNERSH	<u></u>		
CO INDUSTRIES				Corporate] Individua	Partner	ship Public
's MAILING ADDRESS (Street, City, State, ZIP Code)							
DANCH AVE., WYANDANCH, NEW YO	RK 1J	1798					
COLLESPONDENCE TO: (Name, Title and Address)					TELEPHO	NE ND. (Incl	ice Area Coces
CALL GAJER AT ABOVE ADDRESS - V					516		5300
TY NAME			ATION (Street o	n Road)	1	NY OR VILLA	CE
O INDUSTRIES CIVI EXPLICIT DIRECTIONS TO	WY	AKDAK	CH AVE.		WYAI	NDANCH	
FOLK	LOCAIN	UN, II NEI	essary				
IF BUSINESS OR TYPE OF FACILITY		······································		 	140 05 5	40105177	NO. OF SHIFTS
'ACTURER OF PLUMBERS' TUBULAR	BRAS	S GOO	DS.		325	MILUILES	10. OF THIFTS
TOLE WASTE IS DISCHANCED TO A PUBLICLY UNNED WASTE	MIAJAI	NT FACILI	TE AND/OF A	LICENSED WAST	CCAUCK	CER AND TO	THE REST OF
CHUDGE TOU ARE NOT REQUIRED TO OBTAIN AN SPOES PE	ERMIT, CO	DMPLETE T	HIS SECTION O	ONLY, SIGN APPL	ICATION A	ND RETURN.	
ADDRESS OF MUNICIPALITY RESPONSIBLE FOR RECEIVING	G WASTE	D/OR NAMÉ A	ND ADDRESS C	F LICENSED WA	STE SCAVE	NCFR	•
•						· · · · · · · · · · · · · · · · · · ·	
i-'							•
				•			
100 5 20 00		<u></u>					
TION DATA (Use additional forms, if necessary) """TYPES OF PROCESSING DONE AT THIS FACILITY							
CLEANING	. 1	•	٠				
KEL PLATING		• .					
OME PLATING .		•		:			
						;	
L PAL PRODUCTS AND AMOUNTS PRODUCED PER TIME UNIT		1649/144					*******
The same of the sa		KAN MAI	FRIATS AND Y	MOUNTS CONSU	MED PER T	ME UNIT	,,
LAR BRASS GOODS		1.		•			
			· · · · · · · · · · · · · · · · · · ·		· · · · ·		
-	•	2.					•
				· · · · · · · · · · · · · · · · · · ·	·		
4	ļ	3.				•	
625.				*		-	
		4,					
£ .		•	•			•	
AND ADD DISCHARGE COLORS		5.					•
TOUR DISCHARCES CONTAIN OR IS IT POSSIBLE FOR A	NY DISCI	HARGE TO	CONTAIN ON	OR MORE OF TH	IL LOTTON	ING SUBSTAN	CES ADDED AS
n m . Arsenic Boron Chromium	Fio	utides	₩ Lead	₩ Nickel		Selenium	□ Tin
monia Barium Cadmium Ca Copper	O Col		Manganese			Sliver	DE Zinc
r on control chemicals (specify)	lror	n	Mercury	Phenois		Sullides	_
							<u> </u>
organized organizes or halogenated hydrocarbons (e.g. chlorinal	led, llour	rinated or t	prominated) (sp	ecity) TRICH	LOROL	THYLEN	Ε
bicides or pesticides (specify)							
ic.ues, biocides or algaecides (specify)							
stituted atomatics (e.g. derivatives of benzene, pyridene, bipl	henvi a-	nthalana	coal or actual-		14		
nis (specify) ALKALINE CLEANERS	··· C 11 14 118	Print Little	roes of hetiple	um 121, e(C.) (Sp	rcity)		
e the above				-			
the tude names and manufacturer of any chemicals used at t	this facil	ity which	Lie noi liciad a	have and whose	specific -	naetli	
ir pu.				SIN WINSE	sprtiil (wistiluenis a	re not
		· · · · · · · · · · · · · · · · · · ·					
1 ; a of above: (Attach additional sheets, if necessary)							

Batch I week SAT TYPE Satch week It TYPE SA	ND AND GRAVEL E OF IKLAIMENT (II none, so NONE IS FLOW EQUALIZATION PRO TYES ME II "YES", (Depin to Water Tab 60 State)
Batch I week SAT TYPE Satch week It TYPE SA	NONE IS FLOW EQUALIZATION PRO Pes No H "Yes", A no. ND AND GRAVEL FOR TREATMENT (II none, so NONE IS FLOW EQUALIZATION PRO Pes No II "Yes", (Depth to Water Tab 60 State) VIDED!
DIL TYPE SAP Baich week lets inde	PER NO. IN "YES", A PRINCE NO. NO AND GRAVEL E OF INLATMENT (III NONE, SO NONE IS FLOW EQUALIZATION PRO TYES NO II "YES", B ER NO.	Hours per Bay Depin to water lab 60 State) VIDED!
DIL TYPE SAP Baich week lets inde	PER NO. IN "YES", A PRINCE NO. NO AND GRAVEL E OF INLATMENT (III NONE, SO NONE IS FLOW EQUALIZATION PRO TYES NO II "YES", B ER NO.	Hours per Bay Depin to water lab 60 State) VIDED!
DIL TYPE SAN TYPE Batch week ters inde	A TRANO. ND AND GRAVEL E OF TREATMENT (III none, so NONE IS FLOW EQUALIZATION PRO TYES D' NO IF "YES", (B ER NO.	Depin to Nater Tab 60 State) VIDED! describe in comments
DIL TYPE SAN TYPE Batch week ters inde	ND AND GRAVEL E OF IKLAIMENT (II none, so NONE IS FLOW EQUALIZATION PRO TYES ME II "YES", (Depth to Water Tab 60 state) VIDED! describe in comments
Eatch week lets Inde	ND AND GRAVEL E OF IKLAIMENT (II none, so NONE IS FLOW EQUALIZATION PRO TYES ME II "YES", (60 state) VIDED! describe in comments
SAP TYPE SAP	E OF TREATMENT (II none, so NONE S FLOW EQUALIZATION PRO Tes Mo II "Yes", (60 state) VIDED! describe in comments
Eatch week ters inde	E OF TREATMENT (II none, so NONE S FLOW EQUALIZATION PRO Tes Mo II "Yes", (60 state) VIDED! describe in comments
eatch week lets inde	NONE IS FLOW EQUALIZATION PRO YES MO II "YES", I B ER NO.	slate) VIDED† describe in comments
eatch week lets inde	NONE IS FLOW EQUALIZATION PRO YES MO II "YES", I B ER NO.	VIDED† describe in comments
week less inde	Yes Mo II "Yes", I	describe in comments
week leis inde IL TYPE SA	8 23 No.	
IEIS INDE	Es NO.	Hours per day
IEIS INDE	Es NO.	Hours per day
IL TYPE S A		
SA		
SA		
		Depth to Nater Tab
	ND AND GRAVEL	60
	OF TREATMENT (II none, so	
I PH	YSICAL - CHEMIC	CAL
aich	IS FLOW EQUALIZATION PROV	/IDEDI escribe in comments
week		
- 1	z No.	- Hours per day
_		Depin to Mater Table
		60
1 P	HYSICAL - CHEMI	CAL
ach III	S PLOW EQUALIZATION PROV	IDEDI
	K) ies [] wo ii ies., 60	escribe in comments
reek .	Β .	Hours per day
ers Indea	No.	
	٠٠٠ دهي ه	. •
TYPE	•	Depth to Nater Table
SA	AND AND GRAVEL	60
	TYPE S TYPE P Ich Is Inde:	SAND AND GRAVEL SAND AND GRAVEL TYPE OF TREATMENT (If none, so a PHYSICAL - CHEMI IS FLOW EQUALIZATION PROVING THE PHYSICAL - CHEMI IS FLOW EQUALIZATION PROVING THE PHYSICAL - CHEMI IS FLOW EQUALIZATION PROVING THE PHYSICAL - CHEMI IS Indea No.

SUBSTANCES OF CONCERN (Refer to attached TABLE I)

cle all information for those substances your facility has used, produced, stored, distributed or otherwise disposed of since January 1, 1971. Do not the chemicals used unity in analytical laboratory work. Enter the name and code from Table I. If facility uses a substance in any of the Classes $A \sim F$ on the specified in the list, enter it as code class plus 99, e.g. B99 with name, usage, etc.

reethylene		CODE	AVER ANNUAL	USAGE	AMOUNT NOW ON HAND		(8) (A)		PURPOSE OF USE (State whether produced, reacted, blended packaged, distributed, policy	
LE CTIVATE	VG	AIX	250	0	250		-	/-	used, at	
*							1-	- -	clodning	
		-,								
							\dashv			
							╁┤			
							\vdash			
		+					H	+-		
								1		
		1								
							4	4_		
	•					╌┤	+	-		
		+			`		+	1-		
		+				1	+	+		
		┪					1	 		
		 -					I			
		1				\bot	\perp			
}							╀-			
						+	+-	 		
lh						╁	\vdash	<u> </u>		
1	·					+	Н			
										
						4	\dashv			
1						+-	\dashv			
				_		╂┤	+			
- of unknown compos	ition to the					++	+			
	AVERACE	E.DI ofher id	entification	, name o	supplier and	COM	olete	Inform	ution	
SUBSTANCE	ANNUAL USAGE	life of the second seco			SUPPLIER			PURPOSE OF USE		
				-			_		blended, packaged, distributed, no longer used, etc.)	
		 								
M while seems				 					nd belief. False statements made herein	
eas a Clare A min	eriury that information	on provided	On this form	4. 10						

DATE 8/7/79

MICHAEL LIPMAN

TITLE PRESIDENT.

4-12-4 (3/82)	1.	O	Ö	20
;	The second of th	NOTICE OF C	MENT OF THE POWER THE CONTRACTION OF THE PROPERTY OF THE PROPE	
Applicant:	Jameco In	iustries		Date: April 9, 1984
Address:		anch Avenue		
	Wyandanch	NY 11798		
Permits app	olied for and ap	plication number(s) <u>SF</u>	DES NY-0081540, UPA File	Number 10-82-1119
The Deparmodification of non-constructions applican within a Conserva as havin the applicant of the applican	rtment has tion of a pontact cool per day. For manufactur area desition Law 17 g service a cant's facoolk County	made a tentative determit to combine Outing water into ground acility is located a res plumbers tubular gnated as a sole sourceas or portions the ility. Water Authority - Bares	EabylonCounty of the fall 003 and 004 and to advater from 15,000 gallows 248 Wyandance Avenue, or brass goods. The proportice aquifer. Pursuant to public water purveyors ereof located within a the gray Shore Plant and Babylows 250 gray Sh	increase the discharge ons per day to 45,000 Wyandance where the esed discharge is located to Environmental have been identified
SEQR DETE	RMINATION: Project is not	voe Laction: it has been d	it is an exempt, excluded or a Tiletermined that the project will n	of have a significant effect on the
	Project is an	unlisted action; it has beenent.		ill not have a significant effect on
☐ SEQR-4 ☐ SEQR-5	A draft envir	onmental impact statemen	t has been prepared on this proj t has been prepared on this proje	ect and is on file. ect and is on file
STOP FAF	ACENCY	New York State DEC		
AVAILABIL	ITY FOR PUBL	IC COMMENT: Applicatio	ns may be reviewed at the addre	ss listed below. Comments on the

TO THE APPLICANT:

File

1. THIS IS NOT A PERMIT

CONTACT PERSON: Karen N. Chytalo

- 2. This is to advise you that your application is complete and a review has commenced. Additional information may be requested from you at a future date, if deemed necessary, in order to reach a decision on your application.
- 3. Your project is classified MAJOR. Accordingly, a decision will be made within 90 days of the date of this Notice. If a public hearing is necessary, you will be notified within 60 days and the hearing will commence within 90 days of the date of this notice. If a hearing is held, the final decision will be made within 60 days after the hearing is completed.
- ☐ réquired 4. Publication of this Notice in a newspaper is: If required, please consult the accompanying transmittal letter for further instructions.

project must be submitted to the Contact Person indicated below by no later than

NYSDEC, Bldg. 40, SUNY--Room 219

11794

Babylon Town Supervisor CC: Chief Executive Officer Environmental Notice Bulletin, Room 509, 50 Wolf Road, Albany, N.Y. 12233-0001

Stony Brook, NY

T. Snyder

May 18, 1984

(516) 751-7900

S. Costa · APR 12 1984

S.C.DEPT. OF HEALTH SERVICES

Leo M. Page

Engineering Geologist - Geologist Consultant Ground Water Hydrology

(201) 766-0589

P. O. Box 267 Basking Ridge, New Jersey 07920

January 18, 1982

AK RF Environmental and Planning Consultants 130 West 25th Street New York, New York 10001

Attention: Mr. A.F. Fleming

Re: Preliminary Report

Soil and Ground Water Testing

Jameco Industries, Inc.

Wyandanch, Long Island, New York

Gentlemen:

INTRODUCTION

The soil and ground water testing program at the Jameco Industries, Incorporated plant on Wyandanch Avenue in Wyandanch, Long Island, New York, was originally discussed with Mr. A.F. Fleming of AK RF on December 15, 1981. The job was authorized on December 18, and the drilling and sampling of 7 test holes was done on December 29 and 30, 1981.

According to report, three shallow, unlined lagoons had been used to dispose of metal plating wastes from the mid 1960's until 1975. The sludge was supposed to have been removed from the lagoons, which were then backfilled with on-site sand and gravel soils. Subsequent testing of soils from the site by Suffolk County Department of Health Services personnel in August 1981 indicated that high levels of metals were found in soil samples. In August 1979 samples of ground water were taken by SCDHS personnel from wells near the Jameco site, and high concentrations of nickel and iron were found.

PURPOSE AND SCOPE

The main purpose for drilling test holes at the site was to obtain information on the metal content in the soils and ground water at select locations on the Jameco Industries site. The sites were selected at locations where it was considered most likely that remnant sludge would be found in the soils, and/or ground water.

Test holes were drilled with a CME-55, Hollow-Stem Auger drilling rig, which drills a 6 inch diameter hole, without the use of drilling fluid. Photograph #1 shows the drill rig, with the auger bit protruding about 18 inches above the ground, and the sampler rods inside the auger casing, with the sampler driving head in position to drive the sample. Soil samples were obtained by drilling to the desired depth, inserting a split-barrel sampler, 2 inch outside diameter, 1½ inch inside diameter, driving the sampler a vertical distance of 1½ to 2 feet, and withdrawing the sampler and removing the soil sample for testing. Photograph #2 shows the split barrel sampler opened after obtaining the sample from the ground. The soil sample shown in Photograph #2 was split in half along the length of the sampler, and duplicate samples were taken. The apparatus in the background of Photograph #2 shows a close-up of a Kemmerer-Type Underwater Sampler, used for obtaining groundwater samples from the test holes.

Two test holes (B-1 and B-2) were drilled in the area where lagoon #1 (the most frequently used lagoon) was reported to have been located. Continuous soil samples were taken from 2 feet to 12 feet below ground surface in B-1, and from 2 feet to 10 feet below ground in B-2. The test holes were drilled to depths of 18 to 20 feet below ground surface, and one ground water sample was taken from each test hole using the Kemmerer Sampler. After each water sample was taken, the stainless steel sampler was cleaned with distilled water before the next sample was taken. Photograph #3 shows the transfer of ground water from the sampler to the laboratory sample bottle.

Two test holes (B-3 and B-5) were also drilled in the location where lagoon #2 (second most frequently used) was reported to have been located. Soil and water sampling procedures in test holes B-3 and B-5 were similar to those used in B-1 and B-2.

Test hole B-4 was drilled at a location where it was reported that sludge had been encountered in a test boring drilled by SCDHS in August 1981. B-4 is located to the southeast of lagoon #2, which is considered to be downgradient of the ground water flow direction from lagoon #2. Continuous soil samples were taken in B-4 from 2 feet to 10 feet below ground surface, and the hole was then drilled to a depth of 19½ feet where a ground water sample was taken.

Test hole B-7 was drilled to the southeast of lagoon #1, which is considered to be downgradient of the ground water flow direction from lagoon #1. This test hole was installed primarily to obtain information on ground water quality in the shallow aquifer where it is most likely to be affected by remnant materials which might have been deposited during the operation of the sludge lagoon #1. The test hole was drilled to a depth of 19 feet below ground surface, a soil sample was taken at depth 14 feet to 15 feet, and one ground water sample was obtained from the test hole.

Test hole B-6 was drilled about 150 feet to the northwest of lagoon #2. This test hole was drilled upgradient of the estimated ground water flow direction of the shallow aquifer in this area. According to report, no chemicals were ever dumped in this location, and the quality of ground water at B-6 is considered to be representative of the shallow ground water flowing into the Jameco Industries site. Test hole B-6 was drilled primarily to obtain data on ground water quality in a control area, unaffected by the operation of the former sludge lagoons. One soil sample was obtained at a depth of 4 feet to 6 feet, and one ground water sample was taken after the hole had been drilled to a depth of 19 feet below ground surface.

A total of 7 ground water samples were obtained at the site, one from each of the seven test borings. Duplicate soil samples were taken from the borings:

B-1 seven samples

B-2 five samples

B-3 four samples

B-4 four samples

B-5 three samples

B-6 one sample

B-7 one sample

The logs of the test borings, and the sample depths are included in Appendix A.

FINDINGS

At lagoon #1, test borings B-1 and B-2 encountered permeable sand and gravel fill material to depths of about 8 to 9 feet below ground and highly permeable (estimate permeability of about 2,000 gallons per day per square foot) quartzose sand and gravel to the bottom of the holes. No sludge material was encountered in either test boring, but a one eighth inch thick seam of metallic material was encountered at 9 foot depth in B-2.

At lagoon #2, test borings B-3 and B-5 encountered about 6 feet to 8 feet of permeable sand and gravel fill material, with some discoloration due to oil on some of the samples. No sludge was observed on any of the samples. The natural soils, brown, coarse, sand, gravel, pebbles and cobbles, highly permeable, were penetrated from about 8 feet to 20 feet depths.

Test boring B-4, which was drilled near the southwest corner of lagoon #3 (the least frequently used lagoon), penetrated clean permeable sand and gravel fill to about 6½ feet depth and highly permeable, natural sand, gravel and cobbles to 19½ feet depth. No evidence of sludge was found at this location, where it had been reported that green muck had been sampled from a test hole drilled by SCDHS in August 1981.

Based on careful visual examination of continuous soil samples obtained from all six test borings drilled in locations where metallic sludge was reported to have been dumped, no sludge material was observed.

Partial chemical analysis (nickel content) of ground waters obtained from the seven test holes showed abnormally high levels at, and downgradient from lagoon #1, but less than background levels of nickel at lagoon #2. The ground water sample from test boring B-6 had a nickel content of 0.33 ppm, which is higher than would be expected from natural background in ground waters. No detailed information has been provided to me at this time on the concentration of the other metallic ions in the ground water samples, and no data were available on the results of the chemical tests on the 27 soil samples.

CONCLUSIONS & RECOMMENDATIONS

Based on the reports that metallic sludge was obtained from test borings drilled by SCDHS, and the high metallic content (greater than 60,000 ppm) of the soils tested, it is possible that small pockets of metallic sludge occur at the site, in the area near lagoon #3. Rather than drill additional test borings in an attempt to find these sludge materials, it is recommended that a backhoe be used to excavate trenches, about 4 feet to 6 feet deep, 15 to 20 feet long, at select locations on the site. It might be adviseable to have SCDHS personnel at the site during this excavation, both to help select the locations where they encountered the sludge in their test holes, and to observe conditions in the area where they claim that no attempt was made to remove the muck.

Additional data analysis, and a final report on the test boring exploration and testing program, will be presented after the remaining data on ground water and soil tests have been presented to me.

If you have any questions on this matter, please contact me.

Very truly yours,

Leo M. Page

LMP:sk

Leo M. Page

Engineering Geologist - Geologist Consultant Ground Water Hydrology

(201) 766-0589

P. O. Bax 267 Basking Ridge, New Jersey 07920

March 5, 1982

Winer, Neuberger & Sive, P.C. 425 Park Avenue New York, New York 10022

Attention: Daniel Riesel, Esquire

Re: Report

Ground Water Investigation

Jameco Industries

Wyandanch, Long Island, New York

Gentlemen:

INTRODUCTION

This ground water investigation has been conducted in two phases:

Phase I - Preliminary testing for select chemicals of soil and ground water at the site;

Phase II - Literature Review and analysis for site and vicinity.

The Phase I study was authorized December 18, 1981, seven test holes were drilled - and sampled on December 29 and 30, and a Preliminary Report was submitted on January 18, 1982 to AKRF, Environmental Consultants.

The Phase II study was first discussed at a meeting in your office on January 8 and authorized January 13, 1982. Information was obtained from New York State, Suffolk County, and the U.S. Geological Survey offices in late January and early February and a verbal presentation was made of important findings and conclusions on February 5, 1982. During a telephone conversation with Janet Smith, Esquire on February 16, it was decided that a brief written report should be prepared summarizing the ground water investigation.

According to report, three shallow, unlined lagoons had been used to dispose of metal plating wastes from the mid 1960s until 1975. The sludge was supposed to have been removed from the lagoons, which were then backfilled with on-site sand and

gravel soils. Previous investigations relating to Jameco Industries operations and the environment were reported from about 1964 to the present time. In August 1979 samples of ground water were taken by SCDHS personnel from temporary monitor wells installed near the Jameco site, where high concentrations of nickel and iron were found. Subsequent testing of the Jameco site by SCDHS in August 1981 indicated high levels of metals in the soil.

PURPOSE AND SCOPE

The purposes of this ground water investigation were to obtain information on the chemical characteristics of soils and ground water at the Jameco site in Phase I, and to make a preliminary evaluation of geohydrologic conditions at the site and vicinity in Phase II, using available data. A brief discussion of contamination regimes is included in the Phase II portion of the study.

METHOD

Phase I

A review was made of the information provided by Jameco Industries which was related to the disposal of metal plating wastes and contamination at the site. The approximate locations of the abandoned filled in unlined lagoons were staked out in the field, and discussions were held with Jameco Industries personnel who had observed the test drilling by Suffolk County Department of Health Services (SCDHS) in August 1981 when muck from the test holes was tested and found to contain abnormally high concentrations of metals (i.e. copper of 20,000.+ and 67,000.+ ppm). Test holes for this recent investigation were drilled at locations where it was considered most likely that remnant sludge would be found in the soils, and/or ground water.

The seven test holes were drilled with a CME-55, Hollow-Stem Auger drilling rig, which drills a 6 inch diameter hole, without the use of drilling fluid. Therefore, the soil and ground water samples obtained are not affected or diluted by drilling fluids such as water or mud. Soil samples were obtained by drilling with the auger casing bit to the desired depth, inserting a split-barrel sampler, 2 inch outside diameter, light inch inside diameter, driving the sampler a vertical distance of light to 2 feet, and withdrawing the sampler and removing the soil sample for testing. Continuous soil samples were taken at five locations where it was considered most likely that contamination would be found. The test holes were drilled to depths of about 19 feet below ground surface and a ground water sample was taken from each test hole using the Kemmerer Type Underwater Sampler. After the ground water sample had been taken from each test hole, the water sampler was cleaned and rinsed with distilled water before obtaining the next water sample.

One test hole was installed upgradient from the known locations where plating wastes had been discharged at the site. The chemical characteristics of the soil and ground water from this test hole are considered to be representative of background,

or ambient, conditions.

Phase II

Information was obtained on geohydrologic conditions in the study area from New York State Department of Environmental Conservation (NYSDEC) at Stony Brook, New York, from SCDHS offices in Hauppauge, and from the Ground Water Branch of the U.S. Geological Survey in Syosset, New York.

At the NYSDEC offices it was possible to examine maps of the study area and select nearby wells which had pertinent geohydrologic data. The SCDHS was able to provide water quality data on computer printouts for review of wells which they selected near the Jameco property. In this situation it was not possible for me to select wells which I considered to be relevant for this study, nor was it possible to obtain locations of the wells for which information was provided. At the library of the USGS office in Syosset, it was possible to review published reports on geohydrologic conditions in the study area and also to study the results of previous detailed investigations of ground water contamination from metal plating wastes in a geohydrologic setting which is similar to that at the Jameco site. The results of the Phase II study were synthesized with the findings from Phase I to prepare this preliminary evaluation of geohydrologic conditions at the Jameco site and vicinity.

FINDINGS

Hydrogeology Ista

Regional Geohydrologic Conditions

Information on geohydrologic conditions in the region was obtained primarily from U.S. Geological Survey, Professional Paper #1085 (see Appendix A, References).

The major aquifers are the upper glacial outwash sand and gravel deposits, about 75 to 100 feet thick, and the Magothy Formation which is a micaceous, silty fine to medium sand about 800 to 1000 feet thick. The glacial sands and gravels are separated from the underlying Magothy Formation by the relatively impermeable Gardiner's Clay throughout most of the study area. The general slope of the water bearing formations is to the south and southeast, and the depth to ground water table in the upper glacial aquifer is from about 5 feet to 20 feet below the ground surface. The regional water table configuration is shown on Figure 1, Map of Area, and the directions of ground water flow to the south and southeast are shown by green arrows. Regional ground water flow in the glacial aquifer is essentially horizontal, parallel to the ground water table at rates of about 1 foot to 4 feet per day, with an average rate of about 2.5 feet per day (see Figure 2, Geohydrologic Cross Section).

Also shown in Figure 1 is the location of the Jameco plant site, nearby Babylon landfill, Belmont Lake, and other pertinent features. The approximate outline of the existing leachate plume from the landfill, and the estimated former plume from Jameco are shown on Figure 1. The estimated ground water flow below

the landfill is about 1 million gallons per day, with about 60,000 gallons per day of leachate generated and moving from the site to the southeast. The estimated peak flow of contamination from the Jameco site during the worst conditions (between mid 1960s and 1975) was probably only a small fraction of the flow from the landfill. The sludge material was reported to have been removed from the old lagoons, and the lagoons were filled in 1975, and it is assumed that the formation of a more highly concentrated plume from the Jameco ceased at that time. Considering the average rates of ground water flow (2.5 feet per day), and the distance between the old lagoons and Belmont Lake, which is about 3,000 feet, then the "tail-end" of the plume would have reached Belmont Lake in about 1978. According to information provided by the State of New York, a well at 47 Oswego Place (southeast of Jameco) was reported to have a hexavalent chromium content in the ground water of 69 ppm in June 1976. None of the ground water or soil samples tested in 1979, 1981 and 1982 reported any measureable hexavalent chromium.

Detailed studies of ground water contamination from a metal plating operation at Massapequa, about 6 miles west-southwest of the Jameco site, provide an important basis for evaluating the contamination regime at Jameco. The geohydrologic setting and the method of disposing of waste products was similar at the two locations, and according to information provided in the published report (see References, USGSWSP 1879-G), the plating wastes at Massapequa formed a plume from the discharge ponds to Massapequa Creek, about 4,300 feet to the south. The plume was as much as 70 feet thick and 1,000 feet wide at its maximum, and before treatment, the hexavalent chromium concentration in ground water was about 40 ppm. Since treatment, the concentrations of chromium decreased to less than 5 ppm. It was estimated that less than 10 per cent of the chromium contamination in ground water at Massapequa reached Massapequa Creek as surface water flow. None of the contaminated ground water in the glacial aquifer was reported to have reached the underlying Magothy Formation. The dimensions (width and depth) of the former Jameco plume are based on the information obtained from USGS WSP 1879-G which define the Massapequa plume.

Information on chemical analyses of native ground water in the study area indicates that background concentrations of nickel are from 2 to 7 ppm, arsenic 0 to 11 ppm, lead 0 to 4 ppm, and mercury up to 0.8 ppm. Data provided by SCDHS for wells in the Wyandanch-North Babylon area showed iron content in ground water as high as 18 ppm, copper up to 4.9 ppm, and the organic solvent l-l-l trichloroethane as high as 114 ppm. Additional data on organic compounds in ground water show dangerously high levels of l-l-l trichloroethane, and tetrachloroethylene from wells which appear to be outside of the influence of the Jameco plant site. Water quality data are shown on Table 1.

Site Geohydrologic Conditions

Information on site geohydrologic conditions is based on recent test drilling and sampling, test drilling and sampling by SCDHS in 1979 and 1981, and well records obtained at NYSDEC for the two permanent site wells, and the nearby public water supply well of the Suffolk County Water Authority.

Permeable deposits of sand and gravel extend from the ground surface to a depth of about 100 feet, with the depth to the ground water table of about 10 to 12 feet below ground surface in December 1981. The upper sands and gravels are underlain by an impermeable gray clay from a depth of about 100 to 137 feet. The log of the Suffolk County Water Authority municipal well, which is screened from about 590 to 670 feet below ground surface is shown in Table 2. As can be seen on Table 2, clay layers in excess of 100 feet were encountered between the shallow water bearing zone into which the plating wastes were discharged, and the screened portion of the municipal well from which ground water is pumped.

No detailed information is available on the direction of ground water flow in the shallow aquifer at the Jameco plant site. Based on the regional water table contours shown in Figure 1, the flow is from the old lagoons toward the central portion of Belmont Lake, which is about south 55 degrees east. The locations of the former lagoons and the 7 test holes drilled for this investigation are shown on Figure 3, Site Plan. Also shown on Figure 3 is the estimated location of the former plume at the Jameco site, which could have formed during the time the metallic wastes were discharged into the old lagoons (mid 1960s to 1975). Figure 4, Jameco Site and Vicinity, shows a different viewpoint of the Jameco plant site, former lagoons, test wells installed by SCDHS in 1979, and the estimated extent of the former plume from the Jameco site. The estimated direction of ground water flow and the location of site Cross Section A-Al are also shown on Figure 4. The vertical relationship of the ground surface, the ground water table, the former lagoons at the Jameco site, and the estimated extent of the former Jameco plume are shown in Figure 5, Site Cross Section A-A1. The locations of test holes B1 through B5 drilled for this investigation, and temporary test wells Site #1, Site #2, Site A-2 and Site C-1 drilled by SCDHS in 1979 have also been plotted in Figure 5, along with ground water quality data on iron, nickel and some toxic organic compounds -- trichloroethylene, tetrachloroethane, and 1-1-1 trichloroethane. * The water quality data have been tabulated in Table 1.

Two permanent wells are in use at the Jameco plant:

- 1. A water supply well 64 feet deep with 6 inch diameter steel casing and 10 feet of 6 inch diameter steel screen, the yield of this well is 150 gallons per minute with 7 feet of drawdown. This well is located about 100 feet to the west of test hole #6 (see Figure 4), and about 100 feet east of the Jameco plant septic discharge system.
- 2. A diffusion well 45 feet deep, with 6 inch diameter steel casing and 15 feet of 6 inch diameter steel screen. The diffusion well is used to recharge plant cooling water (about 30,000 gallons per day), it is located about 300 feet west of the plant water supply well.

The highest concentrations of metal waste discharge products were found in soil samples taken from the Jameco site during the test drilling by SCDHS in August 1981. The locations of these test holes are not accurately known, but at two of the holes in the south part of former lagoon #3, it was reported that green muck was encountered within a depth of about 5 feet below ground surface. The results of

the chemical tests of the soil samples are tabulated on Table 3, Soil Test Data, which indicates extremely high amounts of copper, chromium and nickel, but no hexavalent chromium.

The soils investigation of December 1981 was conducted with one of the main objectives to determine if the former lagoons had been completely cleaned out and the test holes were drilled at locations where it was expected that high concentrations of plating wastes might be encountered. Test boring #4 was drilled at the exact location where a Jameco Industries employee had reported that muck was removed from one of the SCDHS test borings, but no significant amounts of metal were found in the soils or ground water from test boring #4 (see Table 3). As shown on Table 3, considerably above normal concentrations of nickel, chromium and copper occurred in the soil samples from test holes B1, B2, B3, and B5, drilled in the former lagoons, slightly above normal in test hole B7, and about normal concentrations in B4 and B6.

Studies of the absorption properties of outwash sand and gravel deposits at the site where ground water contamination occurred from metal plating wastes in Massapequa, indicate that metallic ions (i.e. chromium and cadmium) are sorbed by the amorphous iron oxyhydroxide and iron oxide coatings on the aquifer material (see references). Based on the soil tests at the Jameco site, it appears that absorption of metallic substances is occurring in the soils underlying the former lagoons.

SUMMARY, CONCLUSIONS

Contamination of soil and ground water has occurred at the Jameco site. Extremely high concentrations of metallic substances (copper, chromium, nickel) were found in soil samples taken from former lagoon #3 by SCDHS. The recent soil tests of December 1981 indicated considerably above normal metal concentrations of the soils underlying the former lagoons. Ground water samples by the SCDHS in June 1976 indicated the presence of 69 ppm of hexavalent chromium in a well to the southeast of the Jameco site. In 1979, ground water samples taken from the adjacent area east of the Jameco plant showed above normal amounts of nickel, but all other metallic ions were at or below ambient values. Of the 7 test holes drilled in December 1981, from which ground water samples were obtained and tested, none of the metallic ions were above background levels, and no chromium or hexavalent chromium was detected.

It appears likely that most of the high concentration ground water contamination which occurred on the Jameco site between the mid 1960s and 1975, has probably moved past Belmont Lake, which is about 3,000 feet southeast of Jameco. Based on the experience with the ground water contamination from metallic plating wastes at Massapequa, it was considered that there was no immediate danger to municipal water supply wells 2.5 miles downgradient from the plume, due to the slow rate of movement and the dilution of the contaminated water.

There may be some small pockets of sludge in the southern part of lagoon #3. However, it does not appear to be a source of ground water contamination based on the results of tests on ground water samples from test boring #4, which is within 10 feet of the sludge reported in the SCDHS test boring.

The water supply well for Jameco Industries is located within about 100 feet horizontal distance from the plant septic tank discharge system. During the time the water supply well is pumped for plant use, the water level in the well may be drawndown as much as 7 feet below the static ground water level. could induce a flow of contaminated water (contaminated with bacteria and nitrogen compounds) from the septic plant discharge. This could be the source of the reported high nitrogen content in the water being discharged from the plant.

There are serious ground water contamination problems in the study area which are not related to the Jameco Industries operation. The Babylon landfill is at present generating about 60,000 gallons per day (about 22 million gallons per year) of polluted ground water which moves southward for a distance of about 5 miles to Great South Bay. Present plans call for expanding the landfill without taking corrective steps to prevent additional serious ground water pollution. Tests for organic compounds in ground water east of the Jameco site, and outside $u^{M^{d}}$ of the influence of Jameco, show serious gound water pollution by toxic chemicals, in concentrations which are considered to be carcinogenic.

RECOMMENDATIONS

If it is considered necessary to explore for, and remove, metal plating sludge from lagoon #3, it is adviseable to use a backhoe. The reported depth of the sludge is less than 6 feet, and a backhoe can be used to excavate ditches and trenches up to 20 feet deep in relatively short time.

Considering the proximity of the plant water supply well to the septic tank discharge system, it is recommended that samples of ground water be taken and tested periodically for bacteria and nitrogen compounds (ammonia and nitrates). Additional tests are recommended for trihalomethanes, and several other substances, i.e. boron.)

If the State of New York requires that additional investigation be carried out to determine if there is a ground water contamination plume from Jameco, it would be possible to use emergency fire fighting supply wells, and test wells for the Carll's River Recharge study to obtain ground water samples and to measure ground water levels. This may obviate the necessity for installing additional monitor wells offsite.

It is recommended that consideration be given to installing several permanent ground water monitor wells on the Jameco plant site. A minimum of 4 wells would include one upgradient background well, and three wells on the southeast portion of your property.

anti

The following figures and tables complete this report:

Figure 1 - Map of Area

Figure 2 - Regional Geohydrologic Section

Figure 3 - Site Plan

Figure 4 - Site and Vicinity

Figure 5 - Site Geohydrologic Section

Table 1 - Water Quality Data

Table 2 - Well Logs

Table 3 - Soil Test Data

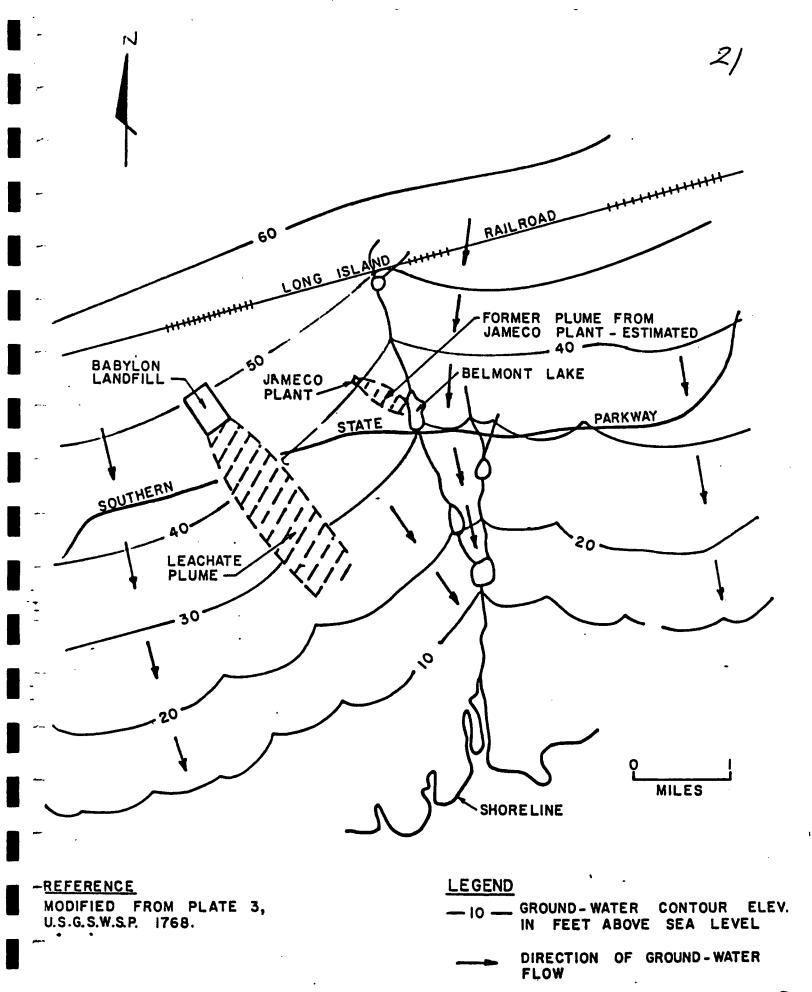
Appendix A - References

Very truly yours,

1 - m

Leo M. Page

LMP:sk



. 248

MAP OF AREA

SUPPLIE COURT OF THE STATE OF NEW YORK COUNTY OF SUFFOLK

THE STATE OF NEW YORK,

Plaintiff,

. COMPLAINT

-against-

Index No.

JAMECO INDUSTRIES, INC.,

Defendant.

The State of New York by its Attorney General, Robert Abrams, brings this civil action against the Defendant Jameco Industries, Inc. ("Jameco") and for its causes of action complains and alleges as follows:

Nature of Action

1. This is a civil action brought by the State of
New York for damages, penalties, and injunctive relief under the
Environmental Conservation Law of the State of New York ("ECL"),
particularly, Titles 5 and 8 of Article 17; Title 9 of Article
27; and the common law of nuisance arising from violations by
Jameco of the effluent discharge, disposal and water quality
requirements and standards of these aforementioned statutes and
for creation of a public nuisance and health hazard all at its
principal place of business at 248 Wyandanch Avenue, Wyandanch,
New York and its environs.

Venue

2. The basis for venue, pursuant to Section 503(c) of the Civil Practice Law and Rules, is that Jameco's principal

office is located in Suffolk County and the cause of action arose there.

Parties

- a sovereign entity brings this action on behalf of itself and as parens patriae, trustee, guardian and representative on behalf of all residents and citizens of the State of New York, particularly those citizens who reside in Wyandanch and the Township of Babylon, County of Suffolk and who utilize or are exposed to the groundwater, wells, and surface water in and around those towns.
- 4. Jameco is a domestic corporation organized and incorporated under the laws of the State of New York and has its principal office and place of business at 248 Wyandanch Avenue, Wyandanch, New York.
- 5. Jameco has engaged in and continues to engage in the business of manufacturing and selling at wholesale brass plumbing products and plastic moldings.

Statement of Facts

Background

6. Jameco is located between Wyandanch and Mount
Avenues in Wyandanch about one-half mile northwest of Belmont
Lake and approximately 200 feet from the Suffolk County Water
Authority water tower and wells ("Jameco Plant Site"). Belmont
Lake is used for recreational purposes and fishing by the
residents of the Town of Babylon. The Suffolk County Water

Authority water tower and wells supply public drinking water for the Wyandanch area.

- 7. Jameco uses an electroplating coating process as part of its manufacturing processes. Jameco produces and has produced as wastes of this process solutions containing high concentrations of nickel, copper, cyanide, chromium, and lead hereinafter referred to as the "electroplating wastes". Such wastes are hazardous wastes within the meaning of ECL Section 27-0901, Title 9, Article 27 and regulations, etc.
- 8. Chromium and chromates (chromium salts) have corrosive effects in the human intestinal tract and the kidney. Copper and its compounds can cause vomiting and nausea in humans, as well as blood and liver damage. Nickel and its compounds, if ingested, can damage the human liver and central nervous system. All the above substances are toxic to many species of marine life and plants. The toxic effects of ingested cyanide include blood, heart, and brain damage, and impairment of cellular respiration. Cyanide is also a known cause of birth defects.
- 9. Jameco, as part of its manufacturing processes, operates an industrial waste treatment facility (the "waste treatment facility") to treat its industrial wastes (the "industrial wastes") including the "electroplating wastes."

 Jameco's industrial wastes and electroplating wastes are expelled from the waste treatment system at various points called "discharge points:" The wastes expelled from these

discharge points are hereinafter referred to as "effluent discharges."

- facility discharged into an area referred to as the "Old Cesspools." Starting sometime in 1975 and thereafter, the waste from the treatment system has been discharged in an area referred to as the "New Cesspools." These discharge areas will hereafter be referred to collectively as the "Jameco Cesspools."
- 11. Jameco employs, as part of the manufacturing and electroplating processes described in paragraphs 7 through 10 supra of the Complaint, oil ("Cutting Oil") to lubricate and clean certain machinery and equipment.
- 12. This Cutting Oil is petroleum within the meaning of Section 172 of the New York Navigation Law.
- southeast to Belmont Lake. The groundwater at the Jameco Plant site is classified GA, "suitable for drinking" pursuant to 6

 New York Codes, Rules and Regulations, Section 701.5. Belmont Lake is classified C, suitable for "fishing and other purposes" pursuant to Section 701.3.

History of Regulation

subject to periodic investigation, first by the Suffolk County Department of Health Services ("SCDHS") (known as the Department of Environmental Control between 1971 and 1979), and eventually by the New York State Department of Environmental Conservation ("DEC") jointly with the SCDHS.

- present Jameco has been subject to the effluent discharge and pollution control requirements of permits issued by the State of New York under the State Pollutant Discharge Elimination System ("SPDES") authorized by Title 8. of Article 17 of the ECL and the Federal Water Pollution Control Act, as amended, 33 U.S.C. \$ 1251 et seq. The initial permit was effective June 13, 1975 (the "1975 Permit"). It was renewed, effective May 1, 1980 (the "Renewed Permit"). Both the 1975 permit and the Renewed Permit are attached hereto and made part hereof as Exhibit A.
- 16. The 1975 Permit required that Jameco inter alia, comply with certain Initial Effluent Discharge Limitations by July 13, 1976 (the "Initial Effluent Discharge Limitations") and that it meet certain more stringent discharge limitations thereafter (the "Final Effluent Discharge Limitations") all as specifically set forth in that Permit.
- 17. In addition the 1975 Permit required that Jameco comply inter alia, with the following pollution control and abatement requirements:
 - (a) That all sludge (precipitated solid matter produced as a residue of the Jameco industrial waste treatment system process) from an area of the Jameco Site referred to as the "Sludge Lagoons" be dug up by an approved industrial scavenger and removed to an authorized disposal site outside Suffolk County;
 - (b) That certain effluent discharges be monitored on a specified scheduled basis and that accurate records and testing results be kept;
 - (c) That test procedures used to monitor Jameco effluent discharges conform to certain specified test methods;

- (d) That Jameco inform the State or County of all effluent discharge violations;
- (e) That no sludge or other waste pollutant removed or resulting from the waste treatment system shall be disposed of in such a manner as to enter surface water or groundwater of the state.
- 18. The Renewed Permit continued Jameco's obligations with respect to discharging industrial and electroplating wastes, handling and removal of sludge, and monitoring of disposal and discharges and maintenance of records.

History of Violations

General

- 19. From 1964 to the issuance of the 1975 Permit in 1975, investigations by SCDHS revealed repeated violations by Jameco of the existing County and State pollution control and health laws and regulations.
- 20. Commencing on June 13, 1975, DEC and SCDHS inspections, and review of Jameco's monitoring records have revealed repeated violations by Jameco of its SPDES permit requirements including discharging industrial and electroplating wastes beyond the Initial Discharge Limitations and, after July 13, 1976, discharging such wastes beyond the Final Effluent Discharge Limitations. The dates of the detected effluent discharge violations include November 10, 1975; July 19, 1977; July 5, 1978; July 31, August 21, September 11, September 18, December 11, and December 18, 1979; March 20, August 20, and October 29, 1980; and June 24, 1981.
- 21. Upon information and belief Jameco, since

 June 13, 1975 has been consistently and repeatedly in violation

of the SPDES Initial Effluent Discharge Limitations and since July 13, 1976 the Final Effluent Discharge Limitations of the 1975 Permit and Renewed Permit, and such violations are not limited to the detected violations set forth in Paragraph 20, supra.

- 22. In April 1980, Jameco was fined and eventually paid a \$2,000 fine for SPDES effluent discharge violations.
- 23. On June 30, 1981 Jameco entered into a consent agreement with SCDHS, which specified, inter alia,

By September 2, 1981, Respondent [Jameco] agrees to abate all discharges of hazardous or toxic materials that would constitute violations of Article 12 of the Suffolk County Sanitary Code. This means in essence that Respondent agrees to insure from and after September 2, 1981, that his discharges of industrial wastes will conform to the standards promulgated pursuant to the Environmental Conservation Law of the State of New York and pursuant to any permit issued therefrom. Consent agreement annexed hereto as Exhibit B.

- 24. On September 8 and September 23, 1981 SCDHS took samples of Jameco effluent discharges which showed such discharges to be in excess of the Renewed Permit Effluent.

 Discharge Limitations.
- 25. Upon information and belief since September 2,
 1981 Jameco has consistently and repeatedly been in violation of
 the SPDES Renewed Permit, Effluent Discharge Limitations and the
 June 30, 1981 consent agreement requirement set forth in
 Paragraph 23, supra.

Improper Use and Maintenance of

Waste Treatment System

- and repeated violations of the Effluent Discharge Limitations as set forth in paragraphs 21 through 25 supra, were and are due in part to the improper use, maintenance, and cleaning of the waste treatment system described in paragraph 9, supra.
- 27. Upon information and belief the improper use, maintenance, and cleaning of this waste treatment system includes,
 - (a) Failing to clean the system of sludge and contaminants in a timely and proper manner;
 - (b) Discharging at least once a day large volumes of effluent discharge through the system, at a level far beyond the capacity the system was and is designed to effectively treat;
 - (c) Bypassing or diverting large volumes of effluent discharge, on a periodic basis, to avoid treatment by the waste treatment system;
 - (d) Allowing larger than permitted deposits of sludge and other contaminants to accumulate in the waste treatment system;
 - (e) Discharging through the waste treatment system substances and effluent discharges it was not designed or authorized to treat.
- 28. Jameco's improper use, maintenance, and cleaning of the waste treatment system as described in paragraphs 26 and 27, supra was and is in violation of the pollution control and abatement requirements of the 1975 and Renewed Permits.
- 29. Jameco's improper use, maintenance, and cleaning of the waste treatment facility has resulted in the buildup of excessive quantities of sludge and waste containing high

concentrations of nickel, cyanide, copper, and chromium in the Jameco Cesspools, described in paragraph 10, supra.

Monitoring Violations

- 30. Jameco was further required by the 1975 and Renewed Permits to:
 - (a) Monitor its effluent discharges on a specific scheduled basis and maintain accurate records and test results of that monitoring;
 - (b) Perform the sample testing and monitoring according to specified test methods and procedures.
 - (c) Notify the State or County as to all discharge violations.
 - 31. Upon information and belief Jameco has violated these monitoring provisions in that it has, <u>inter</u> alia,
 - (a) Failed and continues to fail to prepare, maintain and submit accurate monitoring reports in a timely manner;
 - (b) Failed and continues to fail to report in every instance effluent discharge violations;
 - (c) Failed and continues to fail to employ the testing procedures and methods specified by those permits.

Fraudulent Failure to Remove Old

Sludge Lagoons

- 32. The 1975 Permit required Jameco to remove the sludge from the Sludge Lagoons prior to July 13, 1976.
- 33. The sludge deposited in the Sludge Lagoons contained concentrations of copper, nickel, chromium, and

cyanide, which are hazardous wastes within the meaning of ECL Section 27-0901, Title 9, Article 27 and corresponding regulations.

34. Jameco fraudulently represented to DEC and SCDHS that it had completely dug up and removed all the sludge from the Sludge Lagoons. The last such fraudulent representation was contained in a letter sent to SCDHS at the direction of Jameco, dated April 29, 1980.

35. On August 20, 1981 soil samples were taken by SCDHS on Jameco's premises in the area where the Sludge Lagoons had been located. Laboratory analysis of those samples indicated that the four (4) soil samples contained the following levels of contamination:

Sample #	1,	Copper Chrome Nickel	1,659.8 2,060.3 514.9	parts	81 11	million "	(ppm)
	2	Copper Chrome Nickel Cyanide	20,507.1 19,258.0 7,544.0 233.9	# - # # ,	11 11 11	81 91 97	
ن س	3	Copper Chrome Nickel Cyanide	15,188.2 18,363.4 6,332.2 23.6	11 11 11	# # #	PP	
	4 .	Copper Nickel Chrome	67,297.0 656.9 9,582.3	01 41 11	# # #	99 99 81	

36. The high concentrations of copper, nickel, and cyanide found in the (four) 4 soil samples described in paragraph 35, supra are present because the sludge was not dug

up and removed by Jameco as required by the 1975 Permit and all or part of that sludge remains on the Jameco Plant Site.

- 37. Jameco did not and has not properly disposed of or stored the sludge in the Sludge Lagoons pursuant to ECL Article 27, Titles 7 and 9, and has failed to dig up and remove that sludge as required by the Jameco Permit.
- 38. Jameco obtained the Renewed Permit based upon its misrepresentation to DEC and SCDHS that it had removed the sludge from the Sludge Lagoons.
- 39. The soil at the Jameco Plant Site is sandy and extremely porous and permeable.
- 40. The groundwater in the area of the Sludge Pits lies approximately 10 feet below the surface.
- 41. The sampling described in paragraph 35, supra, indicated that the sludge exists at least 5 feet below the surface.
- 42. Upon information and belief, the sludge in the Sludge Lagoons has leached, is leaching, and will leach into the groundwater beneath the Jameco Plant Site.

Cutting Oil Dumping and Contemination

August 20, 1981 at the Jameco Plant Site, as described in paragraph 35, supra, an area directly behind the warehouse ("Warehouse Area") was sampled, where the ground appeared to be darkly stained by oil, to determine if oil discharge in fact

- 44. The test analysis revealed that the soil contained 2,565.6 parts per million of oil.
- 45. Upon information and belief, Jameco is dumping and/or discharging or has dumped or discharged the Cutting Oil, as described in paragraphs 11 and 12 supra, into the ground in the Warehouse Area.

Groundwater (Water Quality) Contamination

- 46. DEC has established that no person (or corporation) can discharge certain chemical components into the groundwater of the State of New York above certain levels, which are set forth in 6 New York Codes Rules and Regulations, Part 703.
- 47. On or about August 27-28, 1979, SCDHS took samples of the groundwater upstream of the direction of the groundwater flow from the Jameco Plant Site and the Sludge Lagoons and downstream from the Jameco Plant Site and Sludge Lagoons.
- 48. The groundwater downstream from Jameco was found to have high concentrations of nickel and iron. The groundwater upstream of the Jameco Plant Site did not contain those high levels of nickel and iron.
- 49. Upon information and belief the contaminated levels of nickel and iron found downstream of Jameco resulted, from the violation by Jameco of the 1975 and Renewed Permits, including but not limited to:
 - (a) Discharge of chemical components beyond the effluent discharge limits of those permits;

- (b) Failure to remove the sludge in the Sludge Lagoons;
- (c) Failure to use, maintain, and clean the waste treatment system properly;
- (d) Failure to adequately clean the Jameco Cesspools.

Surface Water Contamination

- 50. On information and belief the groundwater under the Jameco Plant site moves in a southeasterly direction toward Belmont Lake at the rate of approximately one to two feet per day.
- 51. Upon information and belief the contamination levels caused by Jameco in the downstream groundwater, as described in paragraph 48 supra, already has or will eventually enter the surface waters contained in Belmont Lake.

Injury

- 52. Due to the existence of contamination in the soil at the Jameco Plant Site, caused by the acts and omissions of Jameco described in this Complaint, particularly paragraph 49, supra, there exists harm and the threat of harm to the groundwater, wells, and surface waters, including the public and private drinking, recreation and fishing waters in the area of Wyandanch and the Township of Babylon.
- Jameco referred to in Paragraph 49 and 52, supra, create harm and the threat of harm to the health and safety of the People of the State of New York, particularly those living in Wyandanch and the Township of Babylon and their environs, constituting a

16

continuing public nuisance in violation of the common law and Real Property Actions and Proceedings Law, § 841.

54. Plaintiff has no adequate remedy at law.

First Cause of Action

- 55. Plaintiff repeats and realleges paragraphs 1 through 25 of the Complaint as if set forth herein at length.
- 56. Jameco's continued discharge, after September 2, 1981 of effluent wastes in excess of the Discharge Limitations set forth in the Renewed Permit constitutes continued and repeated violations of Sections 17-0803 and 17-0807 of Title 8 of Article 17 and Section 71-1929 of Title 19 of Article 71 of the ECL.

Second Cause of Action

- 57. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 29 of the Complaint as if set forth here at length.
- 58. Jameco's continued failures since June 13, 1975, in violation of the 1975 and Renewed Permits to use, maintain, and clean the waste treatment system as set forth in paragraph 27, constitutes a continuing and repeated violation since that date of Sections 17-0803 and 17-0807 of Title 8 of Article 17 and Section 71-1929 of Title 19 of Article 71 of the ECL.

Third Cause of Action

59. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 18 and 30 and 31 of the Complaint as if set forth herein at length:

June 13, 1975 to accurately, completely, and properly monitor its effluent discharges in compliance with the 1975 and Renewed Permits constitutes a continuing and repeated violation since that date of Section 17-0803, Title 8 of Article 17 and 71-1929 Title 19 of Article 71 of the ECL.

Fourth Cause of Action

- 61. Plaintiff repeats and realleges each and every allegation of paragraphs 1 through 18 and 32 through 42 as if set forth herein at length.
- 62. Jameco's failure to dig up and remove the sludge from the Sludge Lagoons, since July 13, 1976 in violation of the 1975 Permit, constitutes a continuing and repeated violation of Section 17-0807, Title 8, Article 17 and Section 71-1929, Title 19, Article 71 of the ECL.

Fifth Cause of Action

- 63. Plaintiff repeats and realleges each and every allegation of paragraphs 1 through 18 and 32 through 42, as if set forth herein at length.
- 64. Jameco's misrepresentations to DEC and SCDHS after July 13, 1976 that it had removed the sludge from the Sludge Lagoons, and its obtaining of the Renewed Permit based upon these misrepresentations constitute a continuing and repeated violation since that date of Section 71-1929, Title 19, Article 71 of the ECL.

Sixth Cause of Action

- 65. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 29 and 32 through 51, as if set forth herein at length.
- 66. Jameco's actions and omissions, since June 13, 1975, allowing excessive amounts of effluent discharges, improperly using, maintaining, and cleaning the waste treatment system and Jameco Cesspools, and failing to clean up the sludge from the Sludge Lagoons, created a groundwater condition downstream of the Jameco Plant Site in contravention of the water quality standards and rules and regulations adopted by the State of New York pursuant to Sections 17-0301 and 17-0303, Title 3, Article 17 of the ECL all in violation of Sections 17-0501 and 17-0511, Title 5, Article 17 of the ECL.

Seventh Cause of Action

- 67. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 18 and 32 through 42 of the Complaint as if set forth herein at length.
- 68. Jameco's continued possession on the Jameco Plant Site of the sludge in the Sludge Lagoons without a permit constitutes a continuing and repeated violation of Section 27-0913, Title 9, Article 27 of the ECL.

Eighth Cause of Action

69. Plaintiff repeats and realleges each and every allegation of paragraphs 1 through 54 of the Complaint as if set forth herein at length.

• --

70. Jameco by virtue of the acts and emissions described set forth in paragraphs 1 through 54 of the Complaint, particularly paragraphs 20, 21, 25, 27, 29, 37, 45, and 49, Jameco has negligently created and maintained a continuing public nuisance harming and threatening harm to the groundwater, wells, and surface water of the State of New York, as well as to the People of New York, as set forth in paragraphs 52 and 53.

Ninth Cause of Action

- 71. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 54 of the Complaint as if set forth herein at length.
- 72. Section 519 of the Restatement (Second) of Torts, provides in pertinent part:

"One who carries on an abnormally dangerous activity is subject to liability for harm to the person, land or chattels of another resulting from the activity, although he has exercised the utmost care to prevent harm."

- 73. Jameco knew or should have known that the handling, discharge, treatment, disposal, and storage of its effluent discharges, sludge, and electroplating and industrial wastes were abnormally dangerous activity and could cause or threaten to cause serious personal injury or health problems, property damage, or ecological harm to the residents and environment of its surrounding area.
- 74. The improper actions and omissions by Jameco with respect to the discharge of its effluent discharges and electroplating and industrial wastes, the failure to remove the sludge from the Sludge Lagoons, the use, maintenance, and

cleaning of its waste treatment system and cesspools, and the handling and disposal of its machine Cutting Oil, all as described in the Complaint were and are abnormally dangerous activities.

- 75. Jameco's manner of conducting these abnormally dangerous activities caused harm and damage and threatens greater harm and damage to the groundwater, wells, and surface water, as well as to the citizens of New York State, in the area and immediate environs of the Jameco Plant Site, as set forth in paragraphs 52 and 53.
- 76. Jameco is strictly liable for all direct and consequential damages resulting from the improper actions and omissions set forth in paragraphs 20, 21, 25, 27, 29, 37, 45, 49 and 74 of the Complaint, supra.

Tenth Cause of Action

- 77. Plaintiff repeats and realleges each and every allegation set forth in paragraphs 1 through 54 of the Complaint as if set forth herein at length.
- 78. Since 1964, and particularly since June 13, 1975, defendant Jameco has been continually and repeatedly warned by DEC and SCDHS, that its excessive effluent discharges, the sludge in the Sludge Lagoons, and its use, maintenance, and cleaning of its waste treatment system and cesspools were all in violation of the statutes and regulations of the State of New York and Suffolk County.
- 79. As set forth in paragraph 22, supra, Jameco has been fined for certain failures to comply with State and Suffolk

16

County laws and regulations, and permits regarding effluent discharges and pollution control and abatement.

- 80. As a result of these warnings, Jameco knew that its continued improper disposal of effluent discharges, improper use, maintenance, and cleaning of the waste treatment system and Jameco Cesspools, and unauthorized and improper storage of the sludge in the Sludge Lagoons would result in the release of hazardous waste materials and other contamination into the groundwater, wells, and surface water in the area of the Jameco Plant Site, thereby creating substantial and unreasonable interference with the environment of the surrounding area and with the health, safety, use, and enjoyment of the groundwater, wells, and surface water in the area of the Jameco Plant Site by the citizens of the State of New York, particularly those in Wyandanch and the Township of Babylon.
- 81. Despite the knowledge set forth in paragraph 80, supra, Jameco continued to perform the acts and omissions set forth therein. Such acts and omissions were intentional and unreasonable.
- 82. By virtue of the intentional and unreasonable acts and omissions as described in paragraphs 20, 21, 25, 27, 29, 37, 45, and 49, Jameco has intentionally created and maintained a continuing public nuisance as set forth in paragraphs 52 and 53 supra.

Eleventh Cause of Action

83. Plaintiff repeats and realleges each and every allegation set Forth in paragraph 1 through 18 and 43 through 45

of the Complaint as if set forth herein at length.

84. Jameco actions with respect to the dumping of the Cutting Oil constitute a violation of Sections 173 and 192 of Article 12 of the Navigation Law of the State of New York.

WHEREFORE, Plaintiff requests that the Court grant the following relief:

- 1. On the First Cause of Action for continuous and repeated violation of the Effluent Discharge Limitations of the Renewed Permit from September 2, 1981 to the present that Jameco be fined, at the rate of \$10,000 per day for each violation.
- 2 On the Second Cause of Action for continuous and repeated violations of the 1975 and Renewed Permits by improper use, maintenance, and cleaning of the waste treatment system and Jameco Cesspools:
 - a) That Jameco be fined at the rate of \$10,000 per day;
 - b) That Jameco be required to remove all sludge and wastes from the area of the waste treatment system and Jameco Cesspools and properly maintain and clean the system and cesspools, thereafter.
- 3. On the Third Cause of Action for continuous and rep eco to accurately, completely, and pro Ref. 33 fluent discharges, that Jameco be fined at Complaint per day of violation.

ourth Cause of Action for Jameco's

fai emove the sludge from the Sludge Lagoons,

and subsequent fraudulent misrepresentations to New York, State

and Suffolk County with respect thereto, from July 13, 1976 to

the present, that Jameco be fined at the rate of \$10,000 per day of violation.

- 5. On the Fifth Cause of Action for fraudulent misrepresentation to the State of New York and the County of Suffolk that the sludge in the Sludge Lagoons had been dug up and removed, that Jameco's Renewed Permit be revoked pursuant to the terms of that permit if the sludge is not completely dug up and removed to a disposal site duly licensed for the receipt of such sludge within 90 days of judgment herein.
- 6. On the Sixth Cause of Action for contravening the water quality standards of New York State from at least August 27, 1979, to the present Jameco be fined at the rate of \$10,000 per day of violation.
- 7. On the Seventh Cause of Action of storing hazardous wastes (sludge in the Sludge Lagoons) without a permit that Jameco be fined \$25,000 per day for each day of violation.
- 8. On the Eleventh Cause of Action for discharge of the Cutting Oil that:
 - a) Jameco be fined \$25,000 per day of violation;
 - Jameco be directed to remove all the Cutting Oil from the ground of the Jameco
 Plant Site and its environs including the groundwater, wells, and surface water.
- 9. Based upon all of the causes of action alleged herein, that defendant Jameco be ordered to:
 - a) Cease all acts and omissions causing discharge of effluents and industrial and electroplating wastes in excess of levels permitted in its Renewed Permit;

- b) Cease improper use, maintenance, and cleaning of the waste treatment system, Jameco Cesspools, and dumping of cutting oil;
- c) Dig up all sludge from the Sludge
 Lagoons and have it removed by a
 duly licensed industrial scavenger to
 a disposal site, duly licensed for the
 receipt of such sludge;
- d) Remove all sludge and wastes from the Jameco cesspools and properly maintain and clean those cesspools, thereafter;
- Abate the nuisance at the Jameco Plant Site and its surrounding environs, including all groundwater, wells, and surface waters caused by the presence migration, and threat of migration of hazardous chemical wastes, by taking such action as the Court shall deem necessary and sufficient to abate completely and permanently the migration and threat of migration of hazardous chemical wastes, particularly but not limited to, copper, nickel, iron, chromium, cyanide, and Cutting Oil;
- f) Provide safe drinking water to any person whose water supply (whether private or public) has been or will be contaminated by the public nuisance as set forth in Paragraphs 52 through 53.
- 10. Should Jameco fail to comply with the items set forth in paragraph 9(a) through (f) supra, as ordered by this Court, within 90 days of the entry of any order herein that defendant Jameco's permit for effluent discharge be revoked until Jameco demonstrates that such compliance can be achieved

and for other and further relief that this Court deems just and proper.

DATED: New York, New York October 28, 1981

ROBERT ABRAMS
Attorney General of the
State of New York
Attorney for Plaintiff
NANCY STEARNS
ROBERT L. OSAR
Assistant Attorneys General
Two World Trade Center
New York, New York 10047
Tel.:212-488-7825

REFERENCE NO. 34

ARCS II CONTRACT 68-W9-0051 MALCOLM PIRNIE, INC. RECORD OF TELEPHONE CONVERSATION/AGREEMENT

File No		Tinge. 315	[] AM;	N PM	·
☐ Incoming Call	From:		•		•
•	•	fillation:		Teleph	one No.
Cutgoing Call	то: Ра	ul George	•	1 - 5.16 -	751 - 7900 lone No.
∴.		fillation: <u>NYS</u>		Brook - W	iter Unit
Malcolm Pirnie St	att: Stever	ot. Mak	Joldy.	1-908-214	
(Receiving or Cal		***		Telephone No)• :
SUMMARY OF	A CONVERS		GREEMENT:		Λ
	•	stormed me			•
water inta		the entir	e southern	s portion of	- long
Ishard, Ne	ew York.				
		· · ·			
				•	. ,
				• .	
		•		÷	• • •
	~,	·			
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	·
			• •		
				•	
Follow-up Action:			•		
		pecify)	•		• 2.6
1.50 m	•				
Action By:					
· · · · · · · · · · · · · · · · · · ·	ime		:	Action	Due Date
	•				
					······································

REFERENCE NO. 35

nytest environmentalia

Summary Package

00001

Case Narrative

00002

Case Narrative

Log in No.: 8678

Volatile Fraction

<u>Surrogates</u>

All recoveries were within QC limits.

MS/MSD

Sample 9159-5 (8678005) was used for the MS/MSD. All RPD's were within QC limits. The recoveries of Benzene and Toluene were below the advisory QC limits in the MS & MSD. This is attributed to the sample matrix.

Method Blanks

In VBLKC8 Acetone was found at a concentration within QC limits. In VBLKC9 no compound was found.

Calibrations

All CCC and SPCC compounds passed all QC criteria in the initial and continuing calibrations. In the two continuing calibrations the % D of Acetone exceeded 35. In the continuing calibration on 6/19/91 the % D of 4-Methyl-2-pentanone exceeded 35.

Internal Standards

All responses and retention times were within QC limits.

Samples

Sample 9159-2 (8678002) had to be reanalyzed at a dilution of 1:100 due to the high concentrations of targeted compounds. No analytical problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package (and in the computer readable data submitted on floppy diskette) has been authorized by the Laboratory Manager or his designee, as verified by the following signature,

_..0000#--

Traffic Reports

00008

WELL YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer	Laboratory			Analytical (requirement	s		
Sample Code	•	*VOA GC/MS	*BNA GC/MS	*VOA	#BNA GC	*PEST PCB	*METALS	*OTHER
9159-1	8678001	×	. 	X	1 	 	X	X
9159-2	 8678002	×	!	į x			x	X
 9159-3	 8678003	l x	1	i x			X	X
; 9159-4	 8678004	 x		X]		x	X
) 9159-5	8678005	 x		x	1		l x	X
9159-50UP	 8678006	 x) x		1	i x	i x
 9159-5MS	8678007	 x	1	! ! x			x	X
9159-5MSD	8678008) x] x		1	x	X
9159-6	8678009	 x	1	X	1	1	, x	X
9159-7	 8678010	l x	1	x		1	i x	x
9159-8	 8678011	 	1				x	
	1	!		! !				
 	1	1	 	1		! 	į	į
1	 	1	[.	1		1	
	1	1	 					İ

^{*} Check Appropiate boxes

.. Page 1 of 7

^{*} CLP, Non-CLP

^{*} HSL, Prority Pollutant

SAMPLE PREPARATION AND ANALYSIS SUMMARY

ORGANICS ANALYSES

+	 .	_		· · · · · · · · · · · · · · · · · · ·	
Sample ID	MATRIX	ANALYTICAL	EXTRACTION	AUXILARY	DIL/CONC
Sample 1D		PROTOCOL	METHOD	CLEANUP	FACTOR
	·				No PEO(D
9159-1	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-2	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-3	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-4	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-5	WATER	NYSASP '89	NА	AS REQ'D	AS REQ'D
9159-5DUP	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-5MS	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-5MSD	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-6	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-7	WATER	NYSASP '89	NA	AS REQ'D	AS REQ'D
9159-8	WATER	NYSASP '89	AN	AS REQ'D	AS REQ'D
					_
	.		_		

Page 3 of 7

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOA ANALYSES

Sample ID	MATRIX	DATE COLLECTED	DATE REC'D AT LAB	DATE EXTRACTED	DATE ANALYZED
9159-1	WATER	6/17/91	6/18/91	NA	6/19/91
9159-2	WATER	6/17/91	6/18/91	NA	6/19/91 6/20/91
9159-3	WATER	6/17/91	6/18/91	NA	6/20/91
9159-4	WATER	6/17/91	6/18/91	AN	6/20/91
9159-5	WATER	6/17/91	6/18/91	NA	6/19/91
9159-5DUP	WATER	6/17/91	6/18/91	NA	6/19/91
9159-5MS	WATER	6/17/91	6/18/91	. NA	6/20/91
9159-5MSD	WATER	6/17/91	6/18/91	АИ	6/20/91
9159-6	WATER	6/17/91	6/18/91	NA	6/19/91
9159-7	WATER	6/17/91	6/18/91	NA	6/19/91
9159-8	WATER	6/17/91	6/18/91	NA	NA
	_			_	_

Page 4 of 7

INTERNAL CHAIN OF CUSTODY

client NYSDEC Loc	chen Title Scin No. 8678

īżb ID.	Client ID.	lab ID.	Clie
8670 -001	9159-1	1 8678 011	1 9159-8
003	9154-2		
ocz	9159-3 9159-4 9159-4		
004	9199-4		1
065	1 4159-5		1
ool	1 - 9:59-5040		1
001	9159 ms	1	
cer	9154 MSD	1	
664	9159-0	!	Ī
010	1 9159-504D 1 9159 MS 1 9159 MSD 1 9159 - 4 9159 - 7	į	

٠.		a		•	Purpose c
т	ate	Time	Relinquished By	Received By	of Ole
Ĩ	199	300 m	Sandare All	Signature A Colli	TYDA.
	6/20	818	Signature	signature we folders	TON
	6/25	(00	Signature	Signature Manager	Stora
	126	1000	Signature Golberg	Signature foll Will	-s lova
	6/28	reg	Signature O	Starting	Sprage
			Signature	Signature	
		1	Signature	Signature •	<u> </u>
		100		Signature	
		**	Signature	Signature	
	* 1	1	Signature	Signature	
• • ,		12	Signature	Signature	
-		-	Signature	Signature	1
• ,			Signature	Signature	

00000

CHAIN OF CUSTODY RECORD

••	60 Se	st Environmental eaview Blvd. Washington, NY		EPORT TO:	Client Name NYSDEC Address Bld WC Stand Bro	08C11 Y.
) 625-5500			Attn. James	<u> </u>
Pr	roject No.	Project Name	MYSDEC		Date Shipped	Carrier
Si	ample: (Signature	1	Analytical Protocol	CLP	Air Bill No.	Cooler No.
	ample S	Date/Time Sampled	Sample Description	No. Of Con - tainers	ANALYSIS R	
 -	3617 9159 - 1	6/17/91/1250	(-rs.ndwster	. 5	VEA Metals	Jenge (- 64
	6179159-2	1, 1 1	G = . 2 - , Lor	5	" Same as	Moore
Г	2617 9159-3	1	Grandwite	<u> </u>	(1	
	ودام جارج-4		(1-2-d-1	15	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(1
- 1	CE() 91 59-5		Grandwite	75	11	′1
u b	عداع عديم . 2 طرع	661911155	6-2-7-9	-5	()	(1
	:6179159-5 MS		Consul with	<u>r </u>		()
ا ۹	ce179129-5 msd	66/17/11/11/52	<u>(: ~ - w ~ / ~ / ~ </u>	- 5	(1	. //
191	56179159-6	10/1/250	Crampa of		. 31	
اجراً.	0617-9159-	7617(911320	EFFICA	5		· ()
۹۰	0617-9159-8	اد ادم کور احدی	Su.\	17	1-hal (homism,	eduin Hreenic Leed
	Relinquished by (Signa	ature)	Cate	Time Re	ec'd. By (Signature)	Date / Tit
	Print Name			Pı	int Name	
	Relinquished by (Signa	sture)	Date /	,	ec'd by (Signature)	Date / Til
	Print Name		-		con Name	Daye ,/ To
	Relinquished by ISign	ature)	Date	1130 /	ring Dine / Lite	418/11
	Print Name	and As	char Gluki		MORANT YICTOR	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Special Instru	ctions/Comme		SDEC	· · · · · · · · · · · · · · · · · · ·	Le 11. 14. 2
٠	The second secon	Tag + A	- 22 	74506		
			- 64 - V	2 (21)6		00010

Client Retains Yellow Copy Only

74-15-1 (5/90)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

CAUTION (check	if applicable)	 . .		
Lab Personnel samples, howe	are expected to use cauver, please use special process it is believed to contain sand/or toxic material(s).	ecautions when i	nanoiing	
			コ	
, 	Place QA Label He	re-		
	K THE BOX PRECEDING THE REQU	ESTED ANALYSIS		
	K INE BOX PRECEDING THE HEAD			•
PRIORITY POLLUTANTS (Water Part 136)—SPDES 2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/MS	S)	'esticides/PCB's (U	SEPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	_		
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 60		Ammonia	
□ 10. pH	☐ 14. TKN		Reactive Phospho	rus
13. Settleable Solids	14. TKN		Total Phenois	•
16. Nitrate/Nitrite	<u>= </u>		PCB's congener n	nethod
19. Oll/Grease	20. TOC		Total Solids	
22. Other	59. PCB's at 0.065 ug/L		Volatiles USEPA	524,2 (GC/MS)
24. Base/Neutral/Acid (B/N/A)—Water—GC-MS 25. Volatile Organic Analysis VOA—Water—G 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846	C-MS(ASP #89-1) ☐ 31. VOA—Soi ☐ 32. Pesticide: ☐ 33. Metals—: ☐ 34. Cyanide—	-Salls/Sediment il/Sediment (ASP #89-4)	ASP #89-1) t-GC (ASP #89-3) 8. Ignitability	
39. Corrosivity	40. VOA-(USEPA 8240)		I. BNA-(USEPA 8	
42. Pesticides/PCB's (USEPA 8080)	43. TCLP	_	4. TCLP (Metals Or	niy)
45. Reactivity	46. Dioxin (USEPA 8280)		7. Appendix IX	
☐ 48. Other	63. Percent Solids	₩ 6	8. Metals	
MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. R ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. R		33. RSRI-01 (EP Toxicity 58. Other		SRR-01)
		ELEPHONE NUMBER:	<1	REGION NO:
CONTRACT LAB:	COUNTY:		SAMPLING DATE:	MILITARY TIME:
SAMPLE MATRIX:	vater ☐ Surface Water ☐ W	lastewater Cothe	r (Specify)	
	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMP	LE: Grab
CASE NUMBER SDG NUMBER	1 211-11	This Sample		
- 5-141 1-19-18-1016 11 D	1 211-11	- Report via Catagor	y B, unless checke	ed- 🗌
	1 211-11	- Report via Catagor	y B, unless checke fall Number C	

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



CONTRACT LAB SAMPLE INFORMATION SHEET

	if applicable)			
samples, how	l are expected to use cautever, please use special pronce it is believed to contain sand/or toxic material(s).	ecautions when	nandung	
	Place QA Label Her	e		
OUE.	CK THE BOX PRECEDING THE REQUE			
PRIORITY POLLUTANTS (Water Part 136)—SPDES	3. Volatiles—USEPA 624 (GC/MS		Pesticides/PCB's (USEF	PA 608-GC)
2. 13 PP Metals	5. Cyanide	´ □ 9.	BOD	
7. Halogenated Volatiles (USEPA 601-GC)	11. COD		Ammonia	
□ 10. pH	11. COD	□ 18.	Reactive Phosphorus	
13, Settleable Solids	17. Total Phosphrous		Total Phenois	
16. Nitrate/Nitrite	☐ 20. TOC	□ 60	PCB's congener meth	nod
19. Oll/Grease	59. PCB's at 0.065 ug/L		. Total Solids	
22. Other	62. CBOD	□ 65	. Volatiles USEPA 524.	2 (GC/MS)
☐ 27. Metals—Water ☐ 28. Cyanide—Water	34. Cyanide—	Soils/Sediment	11 ((ASP #695)	1
☐ 66. Dioxin-Water (ASP #89-4)		il/Sediment (ASP #89-4		(,
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other	☐ 67. Dloxin-So	il/Sediment (ASP #89-4		.,(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846	☐ 67. Dloxin-So	il/Sediment (ASP #89-4	8. Ignitability	
E66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846	67. Dloxin-So	il/Sediment (ASP #89-4	8. Ignitability 11. BNA—(USEPA 8270	
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity	G7. Dloxin-So 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP	i/Sediment (ASP #89-4	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only)	
66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080)	37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280)	il/Sediment (ASP #89-4	8. Ignitability I1. BNA—(USEPA 8270 I4. TCLP (Metals Only) I7. Appendix IX	
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity	G7. Dloxin-So 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP	il/Sediment (ASP #89-4	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only)	
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity ☐ 42. Pesticides/PCB's (USEPA 8080) ☐ 45. Reactivity ☐ 48. Other MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51.	37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids RSGR-01 52. RSRB-01	il/Sediment (ASP #89-4	8. Ignitability I1. BNA—(USEPA 8270 I4. TCLP (Metals Only) I7. Appendix IX	
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity ☐ 42. Pestlcides/PCB's (USEPA 8080) ☐ 45. Reactivity ☐ 48. Other MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. COLLECTED BY:	☐ 67. Dloxin-Soi ☐ 37. EP Toxicity (Metals Only) ☐ 40. VOA—(USEPA 8240) ☐ 43. TCLP ☐ 46. Dioxin (USEPA 8280) ☐ 63. Percent Solids RSGR-01 ☐ 52. RSRB-01 ☐ 5 RSRR-01 ☐ 57. RSRR-02 ☐ 5	3. RSRI-01 (EP Toxicit	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 68. Metals	O1) REGION NO:
☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity ☐ 42. Pesticides/PCB's (USEPA 8080) ☐ 45. Reactivity ☐ 48. Other MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56.	☐ 67. Dloxin-So ☐ 37. EP Toxicity (Metals Only) ☐ 40. VOA—(USEPA 8240) ☐ 43. TCLP ☐ 46. Dioxin (USEPA 8280) ☐ 63. Percent Solids RSGR-01 ☐ 52. RSRB-01 ☐ 5 RSRR-01 ☐ 57. RSRR-02 ☐ 5	3. RSRI-01 (EP Toxicities. Other	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 18. Metals 19. Metals only + RSRR	-01) REGION NO:
☐ 65. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity ☐ 42. Pesticides/PCB's (USEPA 8080) ☐ 45. Reactivity ☐ 48. Other MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. COLLECTED BY:	☐ 67. Dloxin-So ☐ 37. EP Toxicity (Metals Only) ☐ 40. VOA—(USEPA 8240) ☐ 43. TCLP ☐ 46. Dioxin (USEPA 8280) ☐ 63. Percent Solids RSGR-01 ☐ 52. RSRB-01 ☐ 5 RSRR-01 ☐ 57. RSRR-02 ☐ 5 TE	3. RSRI-01 (EP Toxicit 8. Other ELEPHONE NUMBER:	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 18. Metals 19. Metals only + RSRR 19. SAMPLING DATE: 19. (Specify)	REGION NO:
G6. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01	☐ 67. Dloxin-So ☐ 37. EP Toxicity (Metals Only) ☐ 40. VOA—(USEPA 8240) ☐ 43. TCLP ☐ 46. Dioxin (USEPA 8280) ☐ 63. Percent Solids RSGR-01 ☐ 52. RSRB-01 ☐ 5 RSRR-01 ☐ 57. RSRR-02 ☐ 5 TE	3. RSRI-01 (EP Toxicitia. Other ————————————————————————————————————	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 18. Metals 19. Metals only + RSRR 20. SAMPLING DATE: 20. SPECIFY OF SAMPLE: 20. Composite	REGION NO: MILITARY TIME: ! 'Y ():0
☐ 65. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity ☐ 39. Corrosivity ☐ 42. Pesticides/PCB's (USEPA 8080) ☐ 45. Reactivity ☐ 48. Other MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. COLLECTED BY: ☐ CONTRACT LAB: ☐ Air ☐ Soll/Sediment ☐ Ground ☐ CASE NUMBER ☐ SDG NUMBER	G7. Dloxin-So	3. RSRI-01 (EP Toxicit 8. Other LEPHONE NUMBER: 4. Sastewater Other CHECK FOR MS/MD - This Sample Report via Catago	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 18. Metals 19. Metals only + RSRR 19. SAMPLING DATE: 19. (Specify) 19. TYPE OF SAMPLE: 19. Composite 19. B, unless checked	REGION NO: MILITARY TIME: 1 Y ():0 Term
S6. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01 50. RSSR-01 51. 54. RSRO-01 55. RSSB-01 56. COLLECTED BY: CONTRACT LAB: SAMPLE MATRIX: Air Soll/Sediment Ground CASE NUMBER SDG NUMBER	G7. Dloxin-So	3. RSRI-01 (EP Toxicit 8. Other LEPHONE NUMBER: 4. Sastewater Other CHECK FOR MS/MD CHECK FOR MS/MD Report via Catago	8. Ignitability 11. BNA—(USEPA 8270 14. TCLP (Metals Only) 17. Appendix IX 18. Metals 19. Metals only + RSRR SAMPLING DATE: 19. Composite 19. Indies checked 11. Indies checked 11. Indies checked 15. Indies checked 16. Indies checked	REGION NO: MILITARY TIME: ! 'Y ():0

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION CONTRACT LAB SAMPLE INFORMATION SHEET

•	Print legibly	
CAUTION (check	if applicable)	
CAUTION (check	ii abbiioanio)	on when handling DEC
□ Lab-Personnel	are expected to use caution	on when handling DEC.
samples, howe	ver, please use special prec	milicant concentrations
this sample sin	ce it is believed to contain sig	jimicani concentrations
of hazardous a	and/or toxic material(s).	•
	Place QA Label Here	
CHEC	K THE BOX PRECEDING THE REQUEST	TED ANALYSIS
RIORITY POLLUTANTS (Water Part 136)—SPDES		
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/MS)	6. Pesticides/PCB's (USEPA 608-GC)
	☐ 5. Cyanide	9. BOD
	8. Aromatic Volatiles (USEPA 602-0	3C)
_	□11. COD	☐ 15. Ammonia
10. pH	□ 14. TKN	☐ 18. Reactive Phosphorus
13. Settleable Solids	17. Total Phosphrous	21. Total Phenois
16. Nitrate/Nitrite		60. PCB's congener method
19. Oll/Grease	20. TOC	64. Total Solids
22. Other	59. PCB's at 0.065 ug/L	55. Volatiles USEPA 524.2 (GC/MS)
	☐ 62. CBOD	LI 00. ADIALIES OULTA 324.2 (GOING)
☑ 27. Metals—Water ☑ 28. Cyanide—Water ☑ 66. Dioxin-Water (ASP #89-4)	☐ 34. Cyanide—Sc ☐ 67. Dioxin-Soil/S	oils/Sediment Sediment (ASP #89-4)
235. Other		
HAZARDOUS WASTES/RCRA ANALYSIS SW-846		
36. EP Toxicity	37. EP Toxicity (Metals Only)	38. Ignitability
39. Corrosivity	40. VOA—(USEPA 8240)	41. BNA-(USEPA 8270)
42. Pesticides/PCB's (USEPA 8080)	43. TCLP	44. TCLP (Metals Only)
	46. Dioxin (USEPA 8280)	47. Appendix IX
45. Reactivity	63. Percent Solids	☐ 68. Metais
48. Other		
MUNICIPAL SLUDGE	SGR-01	RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. F		Other
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. F	ISRR-01 57, RSRR-02 58.	Outer
COLLECTED BY:	TELE	PHONE NUMBER:
CONTRACT LAB:	COUNTY:FF 1k	SAMPLING DATE: MILITARY TIME
SAMPLE MATRIX:		tewater Other (Specify)
	SAMPLE NUMBER	CHECK FOR MS/MD TYPE OF SAMPLE: Grab
CASE NUMBER SDG NUMBER	21122	☐ This Sample ☐ Composite ☐ Term
. Check If there will be more samples with the	is SDG sent in this calendar week	Report via Catagory B, unless checked
SAMPLING POINT:	. ['	Check if field Outfall Number Check if sampling is duplicate of inspection
		SPDES NUMBER/REGISTRY NUMBER - FLOW

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

CAUTION (check	if applicable)		
. samples, how this sample si	ol are expected to use-cau ever, please use special pr nce it is believed to contain and/or toxic material(s).	ecautions when handing	ng į
			, , , , , , , , , , , , , , , , , , ,
ļ			·
	- Place QA Label He	'e	
СНЕ	CK THE BOX PRECEDING THE REQU	ESTED ANALYSIS	
PRIORITY POLLUTANTS (Water Part 136)—SPDES	3	n De Boetleide	s/PCB's (USEPA 608-GC)
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/M	9. BOD	SPC0 3 (032FX 000-00)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide		
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 6	2-GC) U 12. TSS	_
□ 10. pH	11. COD		
13. Settleable Solids	14. TKN	18. Reactive	
16. Nitrate/Nitrite	17. Total Phosphrous	21. Total Ph	
19. Oil/Grease	20. TOC		ongener method
22. Other	59. PCB's at 0.065 ug/L	64. Total So	
	☐ 62. CBOD	L'65. Volatile	s USEPA 524.2 (GC/MS)
CONTRACT LABORATORY PROTOCOLS	☐20 (ALL)—S	nil/Sediments—Includes 30-34	
23. (ALL)—Water—Includes 24-28		oils/Sediment-GC-MS (ASP #89	.21
24. Base:Neutral/Acid (B/N/A)—Water—GC-N	(O ()/(C) 1100 C)	Is/Sediments—GC-MS (ASP #89-	
≥ 25. Volatile Organic Analysis VOA—Water—		r/PCB's—Soils/Sediment—GC (A	
26. Pesticides/PCB's—Water—GC(ASP #89-3	32. Pesticide		.or #03-0/
₹ 27. Metals—Water			
≥ 28. Cyanide—Water	34. Cyanide-		
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Sc	il/Sediment (ASP #89-4)	
⊠35. Other			
HAZARDOUS WASTES/RCRA ANALYSIS SW-840	37. EP Toxicity (Metals Only)	☐ 38. Ignitat	Sility
36. EP Toxicity		·	(USEPA 8270)
39. Corrosivity	40. VOA-(USEPA 8240)		(Metais Only)
42. Pesticides/PCB's (USEPA 8080)	43. TCLP	44. 10EF	
45. Reactivity	46. Dioxin (USEPA 8280)	68. Metals	
48. Other	G3. Percent Solids		-
MUNICIPAL SLUDGE	П., П.	a mont of JED Yamialia Matain a	2014 + RSRR-011
		3. RSRI-01 (EP Toxicity-Metals	ally + nonn-vij
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56.	RSRR-01	8. Other	
COLLECTED BY:	T	LEPHONE NUMBER:	REGION NO:
7		2 16 JC1	
CONTRACT LAB:	COUNTY: S_[-(-	SAMPLIN	G DATE: MILITARY TIME:
CAMPLE MATRIX	water Surface Water V	astewater Other (Specif	y)
CASE NUMBER SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD TYPE	OF SAMPLE: SGrab
5-14 12 17 12 66 12 1-	1 2 tr 12 tal = t-5		Composite Term1
· Check if there will be more samples with-	this SOG sent in this calendar week	Report via Catagory B, unle	
SAMPLING POINT:		Check if field Outfall Num duplicate	of Inspection
	e e a a a company de la company de la company de la company de la company de la company de la company de la co	SPDES NUMBER/REGISTRY N	
1		1 1 1 1	M

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 74-15-1 (5/90)-9a CONTRACT LAB SAMPLE INFORMATION SHEET

CAUTION (check	if applicable)	handling DEC
samples, howe this sample sin	I are expected to use caution whever, please use special precaution once it is believed to contain signification toxic material(s).	ns when handling
·		
Γ		l
	Place QA Label Here	
CHE	CK THE BOX PRECEDING THE REQUESTED AN	ALYSIS
NORITY POLLUTANTS (Water Part 138)—SPDES		_
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/MS)	6. Pesticides/PCB's (USEPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	□ 9. вор
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
10. pH	☐ 11. COD	15. Ammonia
13. Settleable Solids	☐ 14. TKN	18. Reactive Phosphorus
16. Nitrate/Nitrite	17. Total Phosphrous	21. Total Phenois
19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
22. Other	59. PCB's at 0.065 ug/L	64. Total Solids
	☐ 62. CBOD	65. Volatiles USEPA 524.2 (GC/MS)
24. Basemeutraliacid (Binna)—Vocation 25. Volatile Organic Analysis VOA—Water—€	GC-MS(ASP #89-1) L 31. VOA—Soils/Sedime	
≥ 25. Volatile Organic Analysis VOA—Water—(GC-MS(ASP #89-1) U31. VOA—Soils/Sedimer	Solis/Sediment—GC (ASP #89-3) ent liment
≥ 25. Volatile Organic Analysis VOA—Water—(26. Pesticides/PCB's—Water—GC(ASP #89-3) ≥ 27. Metals—Water ≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4)	GC-MS(ASP #89-1) 31. VOA—Soils/Sedimer 32. Pesticides/PCB's—5 33. Metals—Soil/Sedimer 34. Cyanide—Soils/Sedimer 67. Dioxin-Soil/Sedimer	Solis/Sediment—GC (ASP #89-3) ent liment
≥ 25. Volatile Organic Analysis VOA—Water—(26. Pesticides/PCB's—Water—GC(ASP #89-3) ≥ 27. Metals—Water ≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other □ HAZARDOUS WASTES/RCRA ANALYSIS SW-846	GC-MS(ASP #89-1) 31. VOA—Soils/Sedimer 32. Pesticides/PCB's—5 33. Metals—Soil/Sedimer 34. Cyanide—Soils/Sedimer 67. Dioxin-Soil/Sedimer	Solis/Sediment—GC (ASP #89-3) ent liment
≥ 25. Volatile Organic Analysis VOA—Water—(26. Pesticides/PCB's—Water—GC(ASP #89-3) ≥ 27. Metals—Water ≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other □ AZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity	GC-MS(ASP #89-1) 31. VOA—Soils/Sedimer 32. Pesticides/PCB's—5 33. Metals—Soil/Sedimer 34. Cyanide—Soils/Sedimer 67. Dioxin-Soil/Sedimer	Soils/Sediment—GC (ASP #89-3) ent ilment it (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270)
≥ 25. Volatile Organic Analysis VOA—Water—(26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water ≥ 28. Cyanide—Water	GC-MS(ASP #89-1) 31. VOA—Soils/Sedimer 32. Pesticides/PCB's—5 33. Metals—Soil/Sedimer 34. Cyanide—Soils/Sedimer 67. Dioxin-Soil/Sedimer	Solls/Sediment—GC (ASP #89-3) ent liment it (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only)
39. Corrosivity 42. Pesticides/PCB's (USEPA 8080)	GC-MS(ASP #89-1)	Solis/Sediment—GC (ASP #89-3) ent liment at (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX
≥ 25. Volatile Organic Analysis VOA—Water—(☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3) ≥ 27. Metals—Water ≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4)	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent liment it (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only)
≥ 25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01 □ 50. RSSR-01 □ 51. F	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent ent liment at (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals
≥ 25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) ≥ 27. Metals—Water ≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080) □ 45. Reactivity □ 48. Other MUNICIPAL SLUDGE □ 49. RSGB-01 □ 50. RSSR-01 □ 51. F □ 54. RSRO-01 □ 55. RSSB-01 □ 56. F	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent liment at (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: REGION NO:
≥ 25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01	GC-MS(ASP #89-1)	Solis/Sediment—GC (ASP #89-3) ent liment at (ASP #89-4) 38. ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: REGION NO:
25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01 □ 50. RSSR-01 □ 51. F COLLECTED BY: CONTRACT LAB: SAMPLE MATRIX: SAMPLE MATRIX: Gröundy	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent ent liment at (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: HILITARY TIME:
25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01 □ 50. RSSR-01 □ 51. F COLLECTED BY: CONTRACT LAB: SAMPLE MATRIX: □ Air □ Soil/Sediment □ Groundy CASE NUMBER SDG NUMBER	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent ent ent liment int (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab its Sample Composite Item
25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01 □ 50. RSSR-01 □ 51. F COLLECTED BY: CONTRACT LAB: SAMPLE MATRIX: □ AIr □ Soil/SedIment □ Groundw CASE NUMBER SDG NUMBER	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent liment at (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab hts Sample Composite Tryla Catagory B, unless checked
25. Volatile Organic Analysis VOA—Water—C 26. Pesticides/PCB's—Water—GC(ASP #89-3) 27. Metals—Water 28. Cyanide—Water 66. Dioxin-Water (ASP #89-4) 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 36. EP Toxicity 39. Corrosivity 42. Pesticides/PCB's (USEPA 8080) 45. Reactivity 48. Other MUNICIPAL SLUDGE 49. RSGB-01	GC-MS(ASP #89-1)	Solls/Sediment—GC (ASP #89-3) ent liment at (ASP #89-4) 38. ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals 1 (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: MILITARY TIME: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab als Sample Composite Tryla Catagory B, unless checked If field Outfall Number Check if sampling is part

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION CONTRACT LAB SAMPLE INFORMATION SHEET



	if applicable)	
samples, howe this sample sin	are expected to use caution—whever, please use special precaution ice it is believed to contain signification toxic material(s).	ns when handling
_		<u> </u>
1		ı
	Place QA Label Here	
CHEC	CK THE BOX PRECEDING THE REQUESTED AN	ALYSIS
RIORITY POLLUTANTS (Water Part 136)—SPDES		Fig. 2. Add a poor a supros con con
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/MS)	6. Pesticides/PCB's (USEPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	☐ 9. BOD
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	15. Ammonia
13. Settleable Solids	☐ 14. TKN	18. Reactive Phosphorus
16. Nitrate/Nitrite	17. Total Phosphrous	21. Total Phenois
19. Oil/Grease	☐ 20. TOC	60. PCB's congener method
22. Other	59. PCB's at 0.065 ug/L	64. Total Solids
	CBOD	C 65. Volatiles USEPA 524.2 (GC/MS)
CONTRACT LABORATORY PROTOCOLS		
23. (ALL)—Water—Includes 24-28	29. (ALL)— Soil/Sedimer	
24. Base/Neutral/Acid (B/N/A)—Water—GC-MS	S (ASP #89-2) 30. B/N/A/—Soils/Sedim	
25. Volatile Organic Analysis VOA—Water—G	3C-MS(ASP #89-1) 🔲 31. VOA—Soils/Sedime:	
26. Pesticides/PCB's—Water—GC(ASP #89-3)	32. Pesticides/PCB's—8	loils/Sediment—GC (ASP #89-3)
≥ 27. Metals—Water	33. Metals—Soil/Sedime	ent .
	34. Cyanide—Soils/Sed	
•		
⊠ 28. Cyanide—Water	67. Dioxin-Soli/Sedimen	
•		
⊠ 28. Cyanide—Water ☐ 66. Dioxin-Water (ASP #89-4)	C 67. Dloxin-Sall/Sedimen	t (ASP #89-4)
⊠ 28. Cyanide—Water ☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other	67. Dioxin-Soll/Sedimen	t (ASP #89-4)
28. Cyanide—Water ☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240)	t (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270)
≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP	L (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only)
28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280)	1 (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only) ☐ 47. Appendix IX
≥ 28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080)	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP	L (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only)
	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids	t (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals
	G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedim	t (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only) ☐ 47. Appendix IX ☐ 68. Metals
≥ 28. Cyanide—Water	G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedim	L (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals I (EP Toxicity-Metals only + RSRR-01)
	G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G8. Provided (Metals Only) G8. 40. (USEPA 8240) G8. Dioxin (USEPA 8280) G8. Dioxin (USEPA 8280) G9. G8. Percent Solids G8. Percent Solids G8. G8. Other G8. TELEPHONE	1 (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals I (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO:
	G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/Sedimen G7. G7. Dioxin-Soll/Sedimen G7. Dioxin-Soll/S	U (ASP #89-4) 38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals I (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO:
	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids ASGR-01	I (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only) ☐ 47. Appendix IX ☐ 68. Metals I (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: MILITARY TIME:
	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids ASGR-01	I (ASP #89-4) ☐ 38. Ignitability ☐ 41. BNA—(USEPA 8270) ☐ 44. TCLP (Metals Only) ☐ 47. Appendix IX ☐ 68. Metals I (EP Toxicity-Metals only + RSRR-01) E NUMBER: SAMPLING DATE: MILITARY TIME:
28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080) □ 45. Reactivity □ 48. Other MUNICIPAL SLUDGE □ 49. RSGB-01 □ 50. RSSR-01 □ 51. F □ 54. RSRO-01 □ 55. RSSB-01 □ 56. F COLLECTED BY: □ CONTRACT LAB: □ Air □ Soll/Sediment □ Groundy CASE NUMBER □ SDG NUMBER	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 40. VOA—(USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8280) 63. Percent Solids 38. RSRI-01 53. RSRI-02 58. Other TELEPHONE COUNTY:	38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO: SAMPLING DATE: MILITARY TIME: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab Is Sample Composite Term Term Is Sample Term Term Is Sample Term Term Is Sample Term Is Sample Term Term Term Is Sample Term Te
28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080) □ 45. Reactivity □ 48. Other MUNICIPAL SLUDGE □ 49. RSGB-01 □ 50. RSSR-01 □ 51. F □ 54. RSRO-01 □ 55. RSSB-01 □ 56. F COLLECTED BY: □ CONTRACT LAB: □ Air □ Soll/Sediment □ Groundy CASE NUMBER □ SDG NUMBER	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 40. VOA—(USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8280) 63. Percent Solids 38. RSRI-01 53. RSRI-02 58. Other TELEPHONE COUNTY:	38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO: SAMPLING DATE: MILITARY TIME: Other (Specify) FOR MS/MO TYPE OF SAMPLE: Grab Grab Is Sample Composite Term It via Catagory B, unless checked
28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080) □ 45. Reactivity □ 48. Other MUNICIPAL SLUDGE □ 49. RSGB-01 □ 50. RSSR-01 □ 51. F □ 54. RSRO-01 □ 55. RSSB-01 □ 56. F COLLECTED BY: □ CONTRACT LAB: □ Air □ Soll/Sediment □ Groundy CASE NUMBER □ SDG NUMBER	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 40. VOA—(USEPA 8280) 63. Percent Solids 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8280) 63. Percent Solids 38. RSRI-01 53. RSRI-02 58. Other TELEPHONE COUNTY:	38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO: SAMPLING DATE: MILITARY TIME: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab Grab tyia Catagory B, unless checked field Outfall Number Check if sampling is particular to the control of the cont
28. Cyanide—Water □ 66. Dioxin-Water (ASP #89-4) □ 35. Other HAZARDOUS WASTES/RCRA ANALYSIS SW-846 □ 36. EP Toxicity □ 39. Corrosivity □ 42. Pesticides/PCB's (USEPA 8080) □ 45. Reactivity □ 48. Other MUNICIPAL SLUDGE □ 49. RSGB-01 □ 50. RSSR-01 □ 51. F □ 54. RSRO-01 □ 55. RSSB-01 □ 56. F COLLECTED BY: □ CONTRACT LAB: □ Air □ Soll/Sediment □ Groundy CASE NUMBER □ SDG NUMBER □ Check if there will be more samples with the state of the samples with the sampl	G7. Dioxin-Soll/Sedimen 37. EP Toxicity (Metals Only) 40. VOA—(USEPA 8240) 43. TCLP 46. Dioxin (USEPA 8280) 63. Percent Solids ASGR-01	38. Ignitability 41. BNA—(USEPA 8270) 44. TCLP (Metals Only) 47. Appendix IX 68. Metals I (EP Toxicity-Metals only + RSRR-01) NUMBER: REGION NO: SAMPLING DATE: MILITARY TIME: Other (Specify) FOR MS/MD TYPE OF SAMPLE: Grab It via Catagory B, unless checked I field Outfall Number Check if sampling is page

74-15-1 (5/90)-9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

CAUTION (check	if applicable)		_	
Lab Personnel samples, howe	are expected-to-use cauver, please use special processe it is believed to contain sand/or toxic material(s).	ecautions when i	nanoning	
			· · · · · · · · · · · · · · · · · · ·	· _ · _ · - · - · - · - · - · - · - · -
Γ				
	Place QA Label Her	'e		
CHEC	K THE BOX PRECEDING THE REQUI	STED ANALYSIS		
PRIORITY POLLUTANTS (Water Part 136)—SPDES				
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/MS	•		(USEPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	□ 9. €		
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 60	_		
10. pH	☐11. COD		Ammonia	
10. pm	☐ 14. TKN		Reactive Phosp	phorus
13. Settleable Solids	17. Total Phosphrous		Total Phenois	
16. Nitrate/Nitrite	☐ 20. TOC		PCB's congene	er method
1 ==	59. PCB's at 0.065 ug/L	□ 64.	Total Solids	1
22. Other	☐ 62. CBOD	☐ 65.	Volatiles USEF	PA 524.2 (GC/MS)
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS ☐ 25. Volatile Organic Analysis VOA—Water—G ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3) ☐ 27. Metals—Water ☐ 28. Cyanide—Water ☐ 26. Dioxin-Water (ASP #89-4) ☐ 35. Other	C-MS(ASP #89-1)			-3)
HAZARDOUS WASTES/RCRA ANALYSIS SW-846	Class Co. Towisity (Martale Coly)	Пзя	. Ignitability	
36. EP Toxicity	37 EP Toxicity (Metals Only)		i. BNA(USEP	A 8270)
39. Corrosivity	10. VOA-(USEPA 8240)		I. TCLP (Metals	
42. Pesticides/PCB's (USEPA 8080)	43. TCLP	47. Appendix IX		••
45. Reactivity	46. Dioxin (USEPA 8280) 63. Percent Solids	68. Metals		
48. Other				
MUNICIPAL SLUDGE ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. R ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. R		3. RSRI-01 (EP Toxicity 8. Other		•
COLLECTED BY: 3. A.		LEPHONE NUMBER:		REGION NO:
CONTRACT LAB:	COUNTY:	, s	AMPLING DAT	
SAMPLE MATRIX:	vater Surface Water W	astewater	(Specify)	
CASE NUMBER SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD This Sample		MPLE: Grab Disite Term hrs
☐ Check if there will be more samples with the		Report via Catagor		cked
SAMPLING POINT:			fail Number	Check if sampling is part of inspection
	المعاد المحاد المناشد السيبيل ويراد	SPDES NUMBER/REG	ISTRY NUMBE	R FLOW GPD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

	is applicable)		<u></u> 7		7
samples, howe	are expected to use cauver, please use special processes to contain the contains	ecautions when	nandling		- -
of hazardous a	and/or toxic material(s).	·			
Г	 - ·			7	
	"Disea OA Labab Ha			<u>.</u>	
	Place QA Label He	'e			_
CHEC	K THE BOX PRECEDING THE REQU	ESTED ANALYSIS			_
PRIORITY POLLUTANTS (Water Part 136)-SPDES		П.	n	s's (USEPA 608-GC)	
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/M	·		S (DSELY goo-GC)	
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	□ 9.			ł
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA.60				
□ 10. pH	☐ 11. COD		Ammonia		1
☐ 13. Settleable Solids	☐ 14. TKN		Reactive Pho	·	1
16. Nitrate/Nitrite	17. Total Phosphrous		Total Phenois		
19. Oll/Grease	☐ 20. TOC		. PCB's conger	ner method	1
22. Other	☐ 59. PCB's at 0.065 ug/L		. Total Solids		ł
	62. CBOD	L 65	. Volatiles USE	EPA 524.2 (GC/MS)	
☐ 23. (ALL)—Water—Includes 24-28 ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS ☐ 25. Volatile Organic Analysis VOA—Water—G ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3) ☐ 27. Meţals—Water ☐ 28. Cyanide—Water ☐ 66. Dioxin-Water (ASP #89-4) ☐ 35. Other ☐ HAZARDOUS WASTES/RCRA ANALYSIS SW-846 ☐ 36. EP Toxicity	(ASP #89-2)	Söils/Sädlment il/Sediment (ASP #89-4)	(ASP #89-2) (ASP #89-1) AL—GC (ASP #8	-	-
39. Corrosivity	40. VOA-(USEPA 8240)	_	1. BNA(USE		ļ
42. Pesticides/PCB's (USEPA 8080)	43. TCLP		4. TCLP (Metal		İ
45. Reactivity	46. Dioxin (USEPA 8280)	☐ 47. Appendix IX			
48. Other	_ G3. Percent Solids		8. Metals		
MUNICIPAL SLUDGE 49. RSGB-01 50. RSSR-01 51. R 54. RSRO-01 55. RSSB-01 56. R COLLECTED BY:	SRR-01 57. RSRR-02 5	3. RSRI-01 (EP Toxicity 8. Other		REGION NO	
CONTRACT LAB:	COUNTY:	c .	SAMPLING DA	TE: MILITARY TIME	
SAMPLE MATRIX:	ater Surface Water W	astewater Othe	r (Specify)		<u> </u>
CASE NUMBER SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD		AMPLE: Grab	
SIMIN-17-1-1-15-15-15-15-15-15-15-15-15-15-15-15		This Sample		posite Term	hrs-
Check-if there will be more samples with th	is SDG sent in this calendar week	Report via Catago	y B, unless ch Ifall Number	Check if sampling is	part
SAMPLING POINT:	·	duplicate 🔲		of inspection	
The second secon		SPDES NUMBER/RE	GISTRY NUMBI	ER FLOW	GPD MGD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

CAUT	TION (check if app	olicable)		<u> </u>		
	b Personnel are	expected_to_use_ca please use special p s believed to contain	recautions who	en nanoning		
					7	
1						
		- Place QA Label-H				
	CHECK THE	BOX PRECEDING THE REQ	UESTED ANALYSIS			
PRIORITY POLLUTANTS (Water P	Part 136)—SPDES	Volatiles—USEPA 624 (GC/I	AS)	6. Pesticides/PCB	s (USEPA	608-GC)
2. 13 PP Metals		Cyanide		9. BOD		
4. Acids Base/Neutrals (USEF		Aromatic Volatiles (USEPA	602-GC)	12. TSS		
7. Halogenated Volatiles (US	LI 71 00 . 00 /	. COD		15. Ammonia		j
□ 10. pH		. TKN		18. Reactive Phos	phorus	
13. Settleable Solids		. Total Phosphrous		21. Total Phenois		İ
16. Nitrate/Nitrite	= "). TOC		60. PCB's congen	er method	1
19. Oil/Grease		9. PCB's at 0.065 ug/L		64. Total Solids		
22. Other		2. CBOD		65. Volatiles USE	PA 524.2 (I	GC/MS)
CONTRACT LABORATORY PRO	TOCOLS					
23. (ALL)—Water—Includes			Soll/Sediments—Incl			
23. (ALC)—Water microsoft	N-Water-GC-MS (ASP		Soils/Sediment—GC			1
≥ 25. Volatile Organic Analysi	s VOA-Water-GC-MS(A	(SP #89-1) L_31. VOA—S	olls/Sediments—GC-			
26. Pesticides/PCB's—Wate		32. Pesticio	es/PCB's—Soils/Sed	iment—GC (ASP #89	9-3)	
27. Metals—Water	•		-Soil/Sediment			
28. Cyanide—Water	•		-Soils/Sediment			* •
66. Dioxin-Water (ASP #89-4	1 / 6 >	☐ 87. Dioxin-S	Soil/Sediment (ASP #	89-4) _		
⊠ 35. Other	(
HAZARDOUS WASTES/RCRA A	NALYSIS SW-846			· 		
☐ 36. EP Toxicity		37. EP Toxicity (Metals Only		38. Ignitability		
39. Corrosivity		40. VOA(USEPA 8240)		41. BNA-(USEP		
42. Pesticides/PCB's (USEF	PA 8080)	43. TCLP		44. TCLP (Metals		
· · ·		46. Dioxin (USEPA 8280)		47. Appendix IX		
45. Reactivity		63. Percent Solids		☐ 68. Metals		
MUNICIPAL SLUDGE	R-01 51. RSGR-01	52. RSRB-01	53. RSRI-01 (EP To:	cicity-Metals only +	RSRR-01)
☐ 49. RSGB-01 ☐ 50. RSS			58. Other	<u> </u>		
☐ 54. RSRO-01 ☐ 55. RSS	36-01		TELEPHONE NUMBE	:B·		REGION NO:
COLLECTED BY:	· · · ·	·~ ~	S IV.	161 150		1
CONTRACT LAB:		COUNTY:	\ ⁄.	SAMPLING DAT	_	ILITARY TIME: \ Z. <u>20</u>
SAMPLE MATRIX:	nt Groundwater	Surface Water	Wastewater	Other (Specify)		
☐ Air ☐ Soil/Sedimer	·`	SAMPLE NUMBER	CHECK FOR MS		AMPLE:	⊠ Grab
1411 15 D	DG NUMBER	<u> </u>	This Samp	le Comp		Termhrs.
. Check if there will be mo	re samples with this SDG	sent in this calendar week		agory B. unless che		f sampling is part
SAMPLING POINT:		•	Check if field duplicate	Outfall Number	of ins	pection
			SPDES NUMBER	VREGISTRY NUMBE	R	FLOW GPD MGD

74-15-1 (5/90)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

CAUTION (check	if applicable)			1
samples, howe	are expected to use cauver, please use special proceed to contain and/or toxic material(s).	ecautions when ha	andling	
			\neg	
1			ı	1
	Place QA Label He	re	- ·	
CHEC	K THE BOX PRECEDING THE REQU	ESTED ANALYSIS		
PRIORITY POLLUTANTS (Water Part 136)-SPDES				
2. 13 PP Metals	3. Volatiles—USEPA 624 (GC/M	· <u></u>	sticides/PCB's (USI	EPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/MS)	5. Cyanide	□ 9. 80		·
7. Halogenated Volatiles (USEPA 601-GC)	8. Aromatic Volatiles (USEPA 6			
□ 10. pH	☐ 11. COD	☐ 15. Ai		
13. Settleable Solids	☐ 14. TKN	_	eactive Phosphoru	S
16. Nitrate/Nitrite	17. Total Phosphrous	_	otal Phenois	
19. Oil/Grease	☐ 20. TOC		CB's congener me	thod
22. Other	59. PCB's at 0.065 ug/L		otal Solids	
	CBOD	Ĺ 65. V	olatiles USEPA 52	4.2 (GC/MS)
CONTRACT LABORATORY PROTOCOLS 23. (ALL)—Water—Includes 24-28 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS		pil/Sediments—Includes 30 oils/Sediment—GC-MS (AS		
22. Base/Neutral/AGIA (GNA)—Water—G	C-MS(ASP #89-1)	ls/Sediments—GC-MS (AS	iP #89-1)	
25. Volatile Organic Analysis VOA—Votel:	32. Pesticide	s/PCB's—Soils/Sediment—	-GC (ASP #89-3)	
_	☐ 33. Metals—	Soil/Sediment		
27. Metals—Water	34. Cyanide-	-Soils/Sediment		
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-So	II/Sediment (ASP #89-4)		
Fas. Other				
HAZARDOUS WASTES/RCRA ANALYSIS SW-846				
☐ 36. EP Toxicity	37. EP Toxicity (Metals Only)	38.	Ignitability	
	40. VOA-(USEPA 8240)	☐ 41. ¹	BNA—(USEPA 827	0)
39. Corrosivity 42. Pesticides/PCB's (USEPA 8080)	43. TCLP	□ 44. *	TCLP (Metals Only)
1 —	46. Dioxin (USEPA 8280)	. 🗆 47.	Appendix IX	
☐ 45. Reactivity	53. Percent Solids	☐ 68.	Metals	
48. Other				
MUNICIPAL SLUDGE	SGR-01	i3. ASRI-01 (EP Toxicity-M	etals only + RSRI	R-01)
1 49. N3G8-01 1 250. 1105.11		8. Other		
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. R	Shirt Carrier and			REGION NO:
COLLECTED BY:			(4)77.0	MILITARY TIME:
CONTRACT LAB:	COUNTY:	SAI	MPLING DATE:	12 35
SAMPLE MATRIX:	(410)	astewater Other (
CASE NUMBER SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	Composite	Term hrs
- Check if there will be more samples with th	is SDG-sent in this calendar week	Report via Catagory E		<u> </u>
SAMPLING POINT:		Check if field Outfal duplicate	l Number Che	ck if sampling is part inspection
	. <u> </u>	SPDES NUMBER/REGIS	TRY NUMBER	FLOW GPD MGD

74-15-1 (5/90)--9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

	· · · · · · · · · · · · · · · · · · ·			
	neck if applicable)	- ~		
samples, i	nnel-are expected to use can nowever, please use special p e since it is believed to contain ous and/or toxic material(s).	recautions when	handling	
1			i	
	Place QA Label-He	ere		
	CHECK THE BOX PRECEDING THE REQU	JESTED ANALYSIS		
PRIORITY POLLUTANTS (Water Part 136)—S	PDES			
2. 13 PP Metais	3. Volatiles—USEPA 624 (GC/N		Pesticides/PCB's (L	JSEPA 608-GC)
4. Acids Base/Neutrals (USEPA 625-GC/N	AS)5. Cyanide	□ 9.		
7. Halogenated Volatiles (USEPA 601-GC	8. Aromatic Volatiles (USEPA		L TSS	
□ 10. pH	☐ 11. COD		i. Ammonia	İ
☐ 13. Settleable Solids	☐ 14. TKN	_	3. Reactive Phospho	orus .
☐ 16. Nitrate/Nitrite	17. Total Phosphrous		I. Total Phenols). PCB's congener r	
19. Oil/Grease				nethod
	59. PCB's at 0.065 ug/L		4. Total Solids	
Ì	☐ 62. CBOD			524.2 (GC/MS)
	GC-MS (ASP #89-2)	Solls/Sediment oil/Sediment (ASP #89-4	(ASP #89-2) (ASP #89-1) (ASP #89-1) (ASP #89-3) (ASP #89-3) (ASP #89-3) (ASP #89-3) (ASP #89-3) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-2) (ASP #89-3) (ASP #	:270) nly)
	156. ASAA-O1 COM MEMBER 1	58. Other	•	REGION NO:
COLLECTED BY:	1. cher	ELEPHONE NUMBER:	161 2000	AEGION NO.
CONTRACT LAB:	COUNTY: < _ \ \ \	<	SAMPLING DATE:	MILITARY TIME:
SAMPLE MATRIX:	California.	Nastewater — Oth		
CASE NUMBER SDG NUMBER		CHECK FOR MS/MD		
		This Sample	Composit	
SAMPLING POINT:	with this SUG sent in this calendar week			theck if sampling is part of inspection
		SPDES NUMBERIRE	GISTRY NUMBER	FLOW GPD
			1 1 1	MGD

nytest environmental...

	Laboratory Chronicle	Log in No.: 8678	
		Case No.: SH191	
Client Name: NYSDE	С	SDG No.: 0617	
Date Received: 6/18/9		Project No.: 9118118	~
Sample ID: As per cha			
Organics Extraction:			
Urganics extractions			
•	1. Acids	•	
	2. Base/Neutrals		
	3. Pesticides/PCBs	•	
	4. Dioxin	-	
Amelyaio:			
Analysis:	6/19/91, 6/20/91		
	1. Volatiles	-	
	2. Acids	-	
	3. Base/Neutrals	-	
	4. Pesticides/PCBs	_	
	5. Dioxin	_	•
· -	Section Supervisor Review & Approval		
Other Analysis:			
**********		_	
•			
• •			
		-	
•			•
		_	. =
			·
	الله الله الله الله المنظمة والمنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة ا المنظمة المنظمة ه از مادید های میانید است ماهای شهاست بیشت را بازان این ایا با این		
ing the second s	Review & Approval		
· ·	·		00022
	Quality Control Supervisor 0/2		

nytest environmental.inc **QUALIFIERS**

nytest environmeniulia.

Method Qualifiers for Organic CLP Protocol

		en en la companya de la companya de la companya de la companya de la companya de la companya de la companya de
Q	Qualifier -	Specified entries and their meanings as
 -	υ - 	Indicates compound was analyzed for but was not detected. The sample quantitation limit is corrected for dilutions and the moisture content for soil samples. If a sample extract cannot be concentrated to the protocol - specific volume, this fact is also accounted for in reporting the sample quantitation limit. The number is the minimum attainable detected limits for the sample.
	, л -	Indicates an estimated value. The flag is used either when estimating concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
	. c -	This flag applies to pesticide results where the identification has been successfully confirmed.
	В -	This flag is used when the analyte is found in the associated blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound.
	E -	This flag identifies compounds whose concentrations exceeded the calibration range of the GC/MS instrument for that specific analysis.
	. מ	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
	A ·	This flag indicates that a TIC is a suspected alcol- condensation product.

nytest environmental...

FOIM 1

00028

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET 9159-1 Lab Name: NYTEST ENV INC Contract: 9118118 ----Lab Code: 10195 ___ Case No.: SH191 _ SAS No.: ___ SDG No.: 0617__ Lab Sample ID: 8678001 Matrix: (soil/water) WATER 5.0 (g/mL) ML Lab File ID: <u>C3724</u> Sample wt/vol: ___ -Date Received: 06/18/91 (low/med) LOW_ Level: Date Analyzed: 06/19/91 % Moisture: not dec. _ Dilution Factor: 1.0 Column: (pack/cap) PACK **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L COMPOUND CAS NO. U 10 74-87-3-----Chloromethane_ U 10 74-83-9-----Bromomethane 10 Įυ 75-01-4-----Vinyl Chloride_ U 10 75-00-3-----Chloroethane_ ΙU 75-09-2----Methylene Chloride_ 5 16 18 67-64-1-----Acetone_ 5 ١u 75-15-0-----Carbon Disulfide 5 lυ 75-35-4----1.1-Dichloroethene_ 5 ΙU 75-34-3----1,1-Dichloroethane_ 540-59-0----1,2-Dichloroethene (total)_ . 5 U 5 -{ U 67-66-3----Chloroform 5 U 107-06-2----1,2-Dichloroethane_ 10 U 78-93-3----2-Butanone 71-55-6-----1,1,1-Trichloroethane_ 11 ΙU 5 56-23-5----Carbon Tetrachloride_ 10 lu 108-05-4-----Vinyl Acetate_ 5 Įυ 75-27-4----Bromodichloromethane_ 5 U 78-87-5----1,2-Dichloropropane_ 10061-01-5----cis-1,3-Dichloropropene_ 5 U U 79-01-6----Trichloroethene_ 5 124-48-1-----Dibromochloromethane_ ١u 79-00-5-----1,1,2-Trichloroethane_ . | U 5 U 71-43-2----Benzene ļυ 10061-02-6----Trans-1,3-Dichloropropene_ 5 5 Įυ 75-25-2----Bromoform_

FORM I VOA

108-10-1----4-Methyl-2-Pentanone_

79-34-5-----1,1,2,2-Tetrachloroethane_ 108-88-3-----Toluene____

Ethylbenzene_

127-18-4----Tetrachloroethene_

108-90-7-----Chlorobenzene_

1330-20-7-----Xylenes (total)

100-42-5----Styrene_

100-41-4-

591-78-6----2-Hexanone_

1/87 Rev. 00026

7 · J

10

5

5 ١u

5

5

5

5

5

ΙU

Įυ

U

lu

U

U

ĺυ

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMPLE	NO.
-----	--------	-----

Lab Name: NYTEST ENV INC	Contract:	9118118		9159-1				
Lab Code: 10195	SAS No.:		SDG-1	lo.: <u>061</u>	<u>7</u> -			
. Matrix: (soil/water) WATER		Lab Sample	e ID:	8678001				
Sample wt/vol: 5.0 (g/mL)	<u> </u>	Lab File	ID:	<u>C3724</u>				
Level: (low/med) LOW		Date Rece	ived:	06/18/9	1			
% Moisture: not dec		Date Anal	yzed:	06/19/9	1			
Column (pack/cap) PACK		Dilution	Factor	: 1.0				
CONCENTRATION UNITS: Number TICs found:0 (ug/L or ug/Kg) <u>UG/L</u>								
COMPOUND COMPOUND	NAME 	RT	-	CONC.				

9159-2 Lab Name: NYTEST ENV INC Contract: 9118118 Lab Code: 10195 Case No.: SH191 SAS No.: _____ SDG No.: 0617 Lab Sample ID: <u>8678002</u> Matrix: (soil/water) WATER_ C3725___ Sample wt/vol: Date Received: 06/18/91 (low/med) LOW___ Level: Date Analyzed: 06/19/91 % Moisture: not dec. ____ Dilution Factor: 1.0 Column: (pack/cap) PACK CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> COMPOUND CAS NO. U 10 74-87-3-----Chloromethane__ 10 ΙU 74-83-9----Bromomethane__ Įυ 10 75-01-4----Vinyl Chloride___ | 75-00-3-----Chloroethane_ 10 lυ 5 ΙU 75-09-2----Methylene Chloride_ 10 IU 67-64-1----Acetone_ ١u 5 | 75-15-0-------Carbon Disulfide__ 5 U 75-35-4----1.1-Dichloroethene_ 2 IJ 75-34-3-----1,1-Dichloroethane__ 540-59-0----1,2-Dichloroethene (total)_ 82 67-66-3----Chloroform 5 5 lu 107-06-2----1,2-Dichloroethane_ 10 lυ 78-93-3----2-Butanone_ 71-55-6-----1,1,1-Trichloroethane_ 12 5 าบ 56-23-5----Carbon Tetrachloride__ U 108-05-4------Vinyl Acetate_ 10 5 lυ 75-27-4-----Bromodichloromethane_ 5 U 78-87-5-----1,2-Dichloropropane__ 5 ΙU | 10061-01-5----cis-1,3-Dichloropropene___ IE 79-01-6----Trichloroethene____ 4300 1 124-48-1----Dibromochloromethane_ U 5 5 Įυ 79-00-5----1,1,2-Trichloroethane__ 5 ΙU 71-43-2----Benzene_ | 10061-02-6----Trans-1.3-Dichloropropene_ lu 5 75-25-2----Bromoform_ 5 10 · |U 108-10-1-----4-Methyl-2-Pentanone_ 591-78-6----2-Hexanone____ 10 ΙU 2800 Įξ | 127-18-4-----Tetrachloroethene_ Įυ 5 | 79-34-5----1,1,2,2-Tetrachloroethane_ 5 Įυ 108-88-3----Toluene_ U 5 108-90-7-----Chlorobenzene_ __5. Ju 100-41-4----Ethylbenzene U 100-42-5----Styrene_ --Xylenes (total)

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

9159-2

Lab	Name:	NYTEST	ENV_	LNC		Contr	act:	3110110	_ '		•
Lab	Code:	10195	C	s e No.:	SH191-	SAS	No.:		SDG	No.:	<u>0617</u>

Matrix: (soil/water) <u>WATER</u> Lab Sample ID: <u>8678002</u>

Sample wt/vol: _____5.0 __(g/mL) ML Lab File ID: _____C3725

Level: (low/med) LOW Date Received: 06/18/91

% Moisture: not dec. ____ Date Analyzed: 06/19/91

Column (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs found: $_{2}$

CAS NUMBER COMPOUND	NAME RT	EST. CONC.	Q =====
1. C9 ALKYL BENZENE 2. C10 ALKYL BENZENE	36.34 37.71		•

EPA SAMPLE NO.

Lab Name: NYTEST ENV INC Contract: 9118118 Lab Code: 10195 Case No.: SH191 SAS No.: _____ SDG No.: 0617___

Lab Sample ID: <u>8678002</u> Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mt) ML -- Lab File ID: C3738

Date Received: 06/18/91 (low/med) <u>LOW</u> Level:

Date Analyzed: <u>06/20/91</u> % Moisture: not dec. __

Dilution Factor: 100 Column: (pack/cap) PACK

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

COMPOUND CAS NO.

-			<u>.</u>
	Chloromethane	1000	lu
	Bromome thane	1000	U
74-83-9	Vinyl Chloride	-	ไม
75-01-4	Chloroethane	-	U
			lu
	Methylene Chloride	1000	lu
57-64-1	Acetone	500	ין ט
75 -15-0	Carbon Disulfide		lu
75-35-4	1,1-Dichloroethene	500 500	
75-34-3	1,1-Dichloroethane		Į U
540-59-0	1,2-Dichloroethene (total)	500	(U
67-66-3	Chloroform_	500	Įυ
	1,2-Dichloroethane	500-	U
78-93-3	2-Butanone	1000	ļU
71-55-6	1,1,1-Trichloroethane	500	U
56-23-5	Carbon Tetrachloride	500	U
108-05-4	Vinyl Acetate	1000	U
75-27-4	Bromodichloromethane	500	'n
78-87-5	1,2-Dichloropropane	500	Įυ
10061-01-5	cis-1,3-Dichloropropene	500	U
70 01 6	Trichloroethene	5400	ĺD
124 48 1	Dibromochloromethane	i 500	İυ
124-48-1	1,1,2-Trichloroethane	500	İυ
	Benzene	1 500	ใบ
/1-43-2	Trans-1,3-Dichloropropene	500	ไบ
10061-02-6	Bromoform	500	า้บ
75-25-2	4-Methyl-2-Pentanone	1000	•lü
108-10-1	2-Hexanone	1000	โบ
591-78-6	Tetrachloroethene	.,	io
127-18-4		500	ĺΰ
79-34-5	1,1,2,2-Tetrachloroethane	- 500 500	ĺΰ
	Toluene	• !	ļΰ
108-90-7	Chlorobenzene	_ 500	
100-41-4	Ethylbenzene	_ 500 500	์ เบา ไป
100-42-5	Styrene	500	lu
1330-20-7	Xylenes (total)	-1 300	ΙΟ .
1	* * * * * * * * * * * * * * * * * * * *		1

1E VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA	SAMP	LE	NO	•

NOTEST ENVIRON CONTRACT:	9159-20L 9118118
Lab Raille: Miles Env Inc	
Lab Code: 10195 Case No.: SH191 SAS No.:	: SDG No.: 0617
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID: <u>8678002</u>
Sample wt/vol: 5.0 (g/mL) ML	Lab File ID: <u>C3738</u>
Level: (low/med) LOW	Date Received: <u>06/18/91</u>
% Moisture: not dec.	Date Analyzed: 06/20/91
Column (pack/cap) <u>PACK</u>	Dilution Factor: 100
CONCE	NTRATION UNITS:
Number TICs found:0 (ug/L	. or ug/Kg) <u>UG/L</u>
CAS NUMBER COMPOUND NAME	

9159-3 Lab Name: NYTEST ENV INC Contract: 9118118 Lab Code: 10195 | Case No.: SH191 | SAS No.: SDG No.: 0617 Lab Sample ID: 8678003 Matrix: (soil/water) WATER_ Sample wt/vol: ___5.0 (g/mL) <u>ML___</u> Lab File ID: C3736 Date Received: 06/18/91 (low/med) <u>LOW</u> Level: Date Analyzed: <u>06/20/91</u> % Moisture: not dec. _ Dilution Factor: 1.0 Column: (pack/cap) PACK____ CONCENTRATION UNITS: COMPOUND (ug/L or ug/Kg) <u>UG/L</u> CAS NO. 74-87-3-----Chloromethane_ 10 U 74-83-9----Bromomethane_ 10 IU | 75-01-4-----Vinyl Chloride_ 10 lυ 10 U | 75-00-3-----Chloroethane____ | 75-09-2-----Methylene Chloride__ 5 lυ 67-64-1------Acetone_ 10 U | 75-15-0------Carbon Disulfide_ 5 ΙU 5 U | 75-35-4-----1.1-Dichloroethene_ 75-34-3-----1,1-Dichloroethane_ ļυ | 540-59-0----1,2-Dichloroethene (total)_ lu lυ | 67-66-3----Chloroform_ 1 107-06-2-----1,2-Dichloroethane_ 5 U lυ 78-93-3-----2-Butanone_ 10 | 71-55-6-----1,1,1-Trichloroethane_ Įυ 5 | 56-23-5-----Carbon Tetrachloride_ 5 ΙU 10 U | 108-05-4-----Vinyl Acetate_ 5 ΙU | 75-27-4----Bromodichloromethane_ | 78-87-5----1,2-Dichloropropane_ 5 Iυ 5 Įυ 1 10061-01-5----cis-1.3-Dichloropropene_ 5 ΙU 79-01-6----Trichloroethene_ 5 U | 124-48-1----Dibromochloromethane_ | 79-00-5-----1,1,2-Trichloroethane_ lu 5 71-43-2----Benzene_ lu 10061-02-6----Trans-1,3-Dichloropropene_ ΙU | 75-25-2----Bromoform_ lu 5 10 10 | 108-10-1-----4-Methyl-2-Pentanone_ Įυ 591-78-6-----2-Hexanone_ 10 5 U ____Tetrachloroethene_ 127-18-4--------1,1,2,2-Tetrachloroethane_ 5 lU 79-34-5--108-88-3----Toluene_ 5 ΙU | 108-90-7-----Chlorobenzene_ 5 Įυ 100-41-4-----Ethylbenzene----5 ΙU 100-42-5----Styrene_ --Xylenes (total) 1330-20-7--

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NU.

9159-3

					 Contract:	9118118
1 ah	Name:	NYTEST	ENV_	INC		

SDG No.: 0617 Lab Code: 10195 Case No.: SH191 SAS No.:

Lab Sample ÎD: <u>8678003</u>

Matrix: (soil/water) WATER_ Lab File ID:

Sample wt/vol: 5.0 (g/mL) ML Date Received: 06/18/91

(low/med) LOW Level: - -- Date Analyzed: 06/20/91

% Moisture: not dec. ____

Dilution Factor: 1.0 Column (pack/cap) PACK___

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Number TICs found: __0

٦	UIIIOCI III				, , 1	1
ı		COMPOUND NAME	RT	EST. CONC.]	1 1
١	CAS NUMBER	COMPOOND			===== 	1
i	=======================================		.\			. •
Ì	l					

9159-4 Contract: 9118118 Lab Name: NYTEST ENV INC Lab Sample ID: 8678004 Matrix: (soil/water) WATER_ Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C3737___ Date Received: 06/18/91 (low/med) LOW Level: Date Analyzed: 06/20/91 % Moisture: not dec. _ Dilution Factor: 1.0 Column: (pack/cap) PACK_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

			'n
Chlevemothene	10	U	ì
74-87-3Chloromethane 74-83-9Bromomethane	10	ับ	i
74-83-9	10	lυ	ì
75-01-4Vinyl Chloride	10	iυ	i
75-00-3Chloroethane	5	ไบ	i
75-09-2Methylene Chloride	10	ĺυ	i
67-64-1Acetone	1. 5	ไป	ï
75-15-0Carbon Disulfide	1 5	โบ	i
75-35-41,1-Dichloroethene	, ! 5	ไป	i
75-34-31,1-Dichloroethane	1 5	lu	i
540-59-01,2-Dichloroethene (total)	1 5	lu	'n
67-66-3Chloroform	5	lu	i.
107-06-21.2-Dichloroethane	1 10	Ιυ -	h
78-93-32-Butanone	.1	ใน	-
71-55-61,1,1-Trichloroethane	1 5	lu	1
56-23-5Carbon Tetrachloride	. 1	וט וט	i
108-05-4Vinyl Acetate	10	1.7	l 1
75-27-4Bromodichloromethane	.] - 5	U	1
78-87-51,2-Dichloropropane	.] 5	U	- 1
1 10061-01-5cis-1,3-Dichloropropene	_} 5	Įυ	ļ
79-01-6Trichloroethene	_ 5	ĮU	١,
1 124-48-1Dibromochloromethane	_ 5	ĮU	
79-00-51,1,2-Trichloroethane	_ 5	ĮU	į
1 71 42 2Benzene	_ 5	ļυ	
10061-02-6Trans-1,3-Dichloropropene	_ 5	ĮU	ļ
1 75-25-2Bromoform	_ 5	ļυ	
108-10-14-Methyl-2-Pentanone	_ 10	•10	ļ
591-78-62-Hexanone	_ 10	Įυ	
127-18-4Tetrachloroethene	_ 5	ļυ	
79-34-51,1,2,2-Tetrachloroethane		ļυ	
108-88-3Toluene	_j 5	Įυ	
108-90-7Chlorobenzene	_ 5	ļυ	
100-41-4Ethylbenzene	_{_ { 5 }	U,	
100-41-42-5Styrene	5	Įυ	
1330-20-7Xylenes (total)	_ 5	[U	
1230-20-7	1		

1.E

VOLATILE ORGANICS ANALYSIS DATA SHEET

-	<u> </u>	V 13.11	-	NO.
_	r n	JOI		110.

	TENTATIVELY	IDENTIFIED	COMPOUNDS		
				9159-4	
Lab Name:	NYTEST ENV INC		Contract: 9118118		

Lab Code: 10195 ____ Case No.: SH191 __ SAS No.: ___ SDG No.: 0617

Matrix: (soil/water) WATER Lab Sample ID: 8678004

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C3737

Level: (low/med) LOW Date Received: 06/18/91

% Moisture: not dec. ____ Date Analyzed: 06/20/91

Column (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:

Number TICs found: __0 (ug/L or ug/Kg) <u>UG/L</u>

1	1	į		i 1	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
	 			=====	
		_1			

| __ 9159**~**5 - · -Contract: <u>9118118</u> Lab Name: NYTEST ENV INC SAS No.: _____ SDG No.: 0617 Lab Code: <u>10195</u> Case No.: <u>SH191</u> Lab Sample ID: 8678005 Matrix: (soil/water) WATER_ Lab File ID: C3728 5.0 (g/mL) <u>ML</u> Sample wt/vol: Date Received: <u>06/18/91</u> (low/med) LOW_ Level: Date Analyzed: 06/19/91 % Moisture: not dec. Dilution Factor: 1.0 Column: (pack/cap) PACK_ **CONCENTRATION UNITS:** (ug/L or ug/Kg) <u>UG/L</u> COMPOUND CAS NO. 10 Ìυ 74-87-3-----Chloromethane__ 10 Įυ 74-83-9----Bromomethane_____ | 75-01-4-----Vinyl Chloride____ 10 lυ 75-00-3----Chloroethane____ 10 ļυ 6 75-09-2----Methylene Chloride___ 67-64-1-----Acetone_ 99 B | 75-15-0------Carbon Disulfide_ U ĺυ 75-35-4-----1,1-Dichloroethene_ 5 ΙU 75-34-3-----1,1-Dichloroethane_ 540-59-0----1,2-Dichloroethene (total)___ -1 5 Įυ 67-66-3-----Chloroform_ 5 lu 107-06-2-----1,2-Dichloroethane__ 10 U 78-93-3----2-Butanone_ 71-55-6----1,1,1-Trichloroethane____ lυ Įυ 56-23-5----Carbon Tetrachloride___ 5 10 lu |U 5 75-27-4----Bromodichloromethane___ 5 U 78-87-5-----1,2-Dichloropropane_ 10061-01-5----cis-1,3-Dichloropropene_ 5 U 17 79-01-6----Trichloroethene_ 124-48-1-----Dibromochloromethane_ 5 U | 79-00-5-----1,1,2-Trichloroethane 5 IU 17 | 71-43-2----Benzene_ | 10061-02-6----Trans-1,3-Dichloropropene_ lu 5 5 U | 75-25-2----Bromoform_ 46 | 108-10-1----4-Methyl-2-Pentanone____ 591-78-6----2-Hexanone_ 10 | 127-18-4----Tetrachloroethene_ 30 5 JU | 79-34-5----1,1,2,2-Tetrachloroethane__ 108-88-3----Toluene_ 14 | 108-90-7----Chlorobenzene___ 34 2 J | 100-41-4----Ethylbenzene__ 5 U | 100-42-5----Styrene_ | 1330-20-7----Xylenes (total) --

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	9159	-5	
_		-	 _

						 ·	-	· ·	 +	 -	 _
Lab	Name:	NYTEST	EN	V II	NC_	 	Contract:	9118118	 ۱_		

Matrix: (soil/water) <u>WATER</u> Lab Sample ID: <u>8678005</u>

Sample wt/vol: 5.0 (g/mL) ML tab File ID: C3728

Level: (low/med) LOW Date Received: 06/18/91

% Moisture: not dec. ____ Date Analyzed: <u>06/19/91</u>

Column (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Number TICs found: 2

	1	1		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
				=====
	IUNKNOWN	12.04	6.8	J
1 1.	• · · · · · · · · · · · · · · · · · · ·	i 22.97	j 5.1	J I
! 2.	INKNOMN	1		i i
		.!———	I	·

Lab Name: NYTEST ENV INC Contract: <u>9118118</u> Lab Sample ID: 8678007 Matrix: (soil/water) WATER_ Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C3739 Date Received: <u>06/18/91</u> (low/med) <u>LOW</u> Level: Date Analyzed: <u>06/20/91</u> % Moisture: not dec. _ Dilution Factor: 1.0 Column: (pack/cap) PACK **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L COMPOUND CAS NO. 10 | 74-87-3-----Chloromethane__ U 74-83-9-----Bromomethane 10 75-01-4-----Vinyl Chloride____ Įυ 10 U 10 75-00-3-----Chloroethane_ IJ 75-09-2----Methylene Chloride_ 25 5 |U Įυ 75-35-4----1,1-Dichloroethene_ ΙU 75-34-3-----1,1-Dichloroethane_ 540-59-0-----1,2-Dichloroethene (total)_ 3 IJ ΙU 67-66-3-----Chloroform_ lu 5 107-06-2----1,2-Dichloroethane_ 78-93-3----2-Butanone_ 10 Įυ 71-55-6-----1,1,1-Trichloroethane_ Įυ | 56-23-5-----Carbon Tetrachloride__ 5 JU 10 U 1 108-05-4-----Vinyl Acetate__ 75-27-4----Bromodichloromethane ŀυ 5 5 U | 78-87-5-----1,2-Dichloropropane__ | 10061-01-5----cis-1,3-Dichloropropene_ | 79-01-6-----Trichloroethene_ 5 ļυ 5 ΙU ΙU 124-48-1----Dibromochloromethane_ 5 IU 79-00-5-----1,1,2-Trichloroethane_ Įυ 71-43-2----Benzene_ 10061-02-6----Trans-1,3-Dichloropropene_ 5 Įυ 5 . | U | 75-25-2----Bromoform_ | 108-10-1-----4-Methyl-2-Pentanone_ | 591-78-6----2-Hexanone____ 10 ΙU 10 Įυ 127-18-4----Tetrachloroethene 20 79-34-5-----1,1,2,2-Tetrachloroethane_ 108-88-3-----Toluene_ 5 ΙU 5 lu lu | 108-90-7-----Chlorobenzene_ | 100-41-4----Ethylbenzene_ 5 lu Įυ | 100-42-5----Styrene_ | 1330-20-7----Xylenes (total)

__9159-5MSD

Lab Name: NYTEST ENV INC Contract: 9118118

Matrix: (soil/water) WATER Lab Sample ID: 8678008

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: C3740

Level: (low/med) LOW Date Received: 06/18/91

% Moisture: not dec. ____ Date Analyzed: 06/20/91

Column: (pack/cap) PACK Bilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

74.07.3	Chloromethane	10	 บ
74-87-3	Bromomethane		เบ้า โ
74-83-9	Vinyl Chloride	10	Ü
75-01-4	Chloroethane	10	lu I
		3	IJ
75-09-2	Methylene Chloride	32	10 1 1
67-64-1	Acetone	. 5	เ ไป
75-15-0	Carbon Disulfide	5 5	10 [U
75-35-4	1,1-Dichloroethene	_	រូប [ប
75-34-3	1,1-Dichloroethane	3	! -
540-59-0	1,2-Dichloroethene (total)		IJ
67-66-3	Chloroform_	5	Įυ
	1,2-Dichloroethane		ĮU
78-93-3	2-Butanone	10	Į U
71-55-6	1,1,1-Trichloroethane		Įυ
	Carbon Tetrachloride	5	ļu
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5.	
78-87-5	1,2-Dichloropropane] 5	ĮU
10061-01-5	cis-1,3-Dichloropropene	5	เบ
79-01-6	Trichloroethene	5	ĺυ
124-48-1	Dibromochloromethane	.] 5	ไก
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	.] 5	ļυ
10061-02-6-	Trans-1,3-Dichloropropene	5	וַט
75-25-2	Bromoform	.] 5	ļυ
108-10-1	4-Methyl-2-Pentanone	.] 10	• ប
	2-Hexanone	10	ļυ
	Tetrachloroethene	22	1
79-34-5	1,1,2,2-Tetrachloroethane	5	Įυ
	Toluene	5	ĮU
	Chlorobenzene	5	ļυ
100-50-/	Ethylbenzene	5	įυ
	Styrene	5	įυ
1220 20 7	Xylenes (total)	i5	U
1990=70-/			. 1

9159-5DUP Contract: 9118118 Lab Name: NYTEST ENV INC Case No.: SH191 SAS No.: SDG No.: 0617 Lab Code: 10195 Lab Sample ID: 8678006 Matrix: (soil/water) WATER_ 5.0 (g/mL) ML_ Lab File ID: C3729 Sample wt/vol: Date Received: 06/18/91 (low/med) Level: Date Analyzed: <u>06/19/91</u> % Moisture: not dec. Dilution Factor: 1.0 Column: (pack/cap) PACK **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L Q COMPOUND CAS NO. 10 ١u 74-87-3----Chloromethane_ IU 10 1 74-83-9-----Bromomethane_ | 75-01-4-----Vinyl Chloride_ 10 lυ 10 lu 75-00-3-----Chloroethane 7 75-09-2----Methylene Chloride_ 110 B 67-64-1----Acetone_ lU 5 75-15-0-----Carbon Disulfide_ 75-35-4-----1,1-Dichloroethene_ 5 U 5 ΙU | 75-34-3------1,1-Dichloroethane_ 540-59-0----1,2-Dichloroethene (total) 5 5 ļυ 67-66-3----Chloroform_ 5 IU 107-06-2----1,2-Dichloroethane_ ľU 78-93-3----2-Butanone 10 IU 71-55-6----1,1,1-Trichloroethane_ 5 5 Įυ 56-23-5----Carbon Tetrachloride_ 10 Įυ 108-05-4------Vinyl Acetate_ ١U 5 75-27-4----Bromodichloromethane_ 5 ΙU 78-87-5-----1,2-Dichloropropane_ 5 Įυ 10061-01-5----cis-1.3-Dichloropropene_ 15 79-01-6----Trichloroethene 5 10 124-48-1----Dibromochloromethane_ 79-00-5-----1,1,2-Trichloroethane_ 5 ΙU 18 71-43-2----Benzene 10061-02-6----Trans-1,3-Dichloropropene_ U 5 5 lu 75-25-2----Bromoform_ 17 108-10-1-----4-Methyl-2-Pentanone_ 10 Įυ 591-78-6----2-Hexanone_ 26 127-18-4----Tetrachloroethene 5 79-34-5-----1,1,2,2-Tetrachloroethane_ 14 108-88-3----Toluene_ 34

108-90-7-----Chlorobenzene_ 100-41-4-----Ethylbenzene_

| 1330-20-7-----Xylenes (total)

100-42-5----Styrene_

5

U

ĺυ

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

				 	-	_	•	 915 <u>9</u> -5DUP	
Lab	Name:	NYTEST	ENV INC	 	Contr	act:	9118118	 l	

Lab Code: 10195 | Case No.: SH191 | SAS No.: ____ | SDG No.: 0617

Lab Sample ID: <u>8678006</u> Matrix: (soil/water) WATER

Lab File ID: C3729 5.0 (g/mL) ML Sample wt/vol:

Date Received: 06/18/91 (low/med) LOW Level:

Date Analyzed: <u>06/19/91</u> % Moisture: not dec.

Dilution Factor: 1.0 (pack/cap) PACK_ Column

> **CONCENTRATION UNITS:** (ug/L or ug/Kg) <u>UG/L</u>

Number TICs found: __3

1		1	1	1
CAS NUMBER	I COMPOUND NAME	RT	EST. CONC.	Q
	 	=======	===========	=====
1 1	METHYL ACETATE	9.07	13	J
1 2.	IUNKNOWN	12.04	7.3	J
1 3.	LUNKNOWN	14.20	5.0	 J
1		.		

9159-6 _____ Contract: 9118118 Lab Name: NYTEST ENV INC SDG No.: 0617_ Lab Sample ID: 8678009 Matrix: (soil/water) WATER_ Lab File ID: C3730 5.0 (g/mL) <u>ML</u> Sample wt/vol: Date Received: 06/18/91 (low/med) <u>LOW</u> Level: Date Analyzed: <u>06/19/91</u> % Moisture: not dec. ___ Dilution Factor: 1.0___ Column: (pack/cap) PACK_ CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L COMPOUND CAS NO. 10 | 74-87-3-----Chloromethane__ 74-83-9-----Bromomethane___ U 10 | 75-01-4-----Vinyl Chloride_____ 10 10 U IJ 75-09-2----Methylene Chloride__ 67-64-1-----Acetone_ 97 B 75-15-0-----Carbon Disulfide__ ΙU Įυ 75-35-4----1,1-Dichloroethene_ 5 U 75-34-3-----1,1-Dichloroethane_ 540-59-0----1,2-Dichloroethene (total)___ 47 5 ΙU 67-66-3-----Chloroform_ lu 107-06-2----1,2-Dichloroethane_ 5 10 ΙU 78-93-3----2-Butanone_ 71-55-6----1,1,1-Trichloroethane_ 5 ΙU | 56-23-5----Carbon Tetrachloride__ ΙU 10 | 108-05-4-----Vinyl Acetate_ 5 T U 75-27-4----Bromodichloromethane_ 5 |U | 78-87-5-----1,2-Dichloropropane_ 10061-01-5----cis-1,3-Dichloropropene_ 5 U 18 79-01-6----Trichloroethene 124-48-1----Dibromochloromethane_ 5 Įυ 79-00-5----1,1,2-Trichloroethane__ 5 lu 10 71-43-2----Benzene_ | 10061-02-6----Trans-1,3-Dichloropropene_ 5 lu 5 Įυ 75-25-2----Bromoform_ 108-10-1----4-Methyl-2-Pentanone___ 87 ° | 591-78-6----2-Hexanone____ | 127-18-4-----Tetrachloroethene__ ΙU 10 12 5 lu 79-34-5----1,1,2,2-Tetrachloroethane_ 12 108-88-3----Toluene_ | 108-90-7-----Chlorobenzene_ 5 ١U | 100-41-4----Ethylbenzene___ lU 5 100-42-5-----Styrene_ | 1330-20-7----Xylenes (total)___

1E

EPA SAMPLE NO.

.VOLATILE	ORGANIC	S. ANAL	YSIS_	DATA	SHEET
	TUELY TO				

_____ Contract: <u>9118118</u>

9159-6

Lab Name: NYTEST ENV INC

Matrix: (soil/water) WATER

C3730

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID:

Level: (low/med) LOW___

Date Received: 06/18/91

Lab Sample ID: 8678009

% Moisture: not dec. ____

Date Analyzed: <u>06/19/91</u>

Column (pack/cap) PACK_

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>

Number TICs found: __1

1				
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
				====
1.	UNKNOWN -	12.04	9.5	J
į .		l		

9159-7 Contract: 9118118 Lab Name: NYTEST ENV INC SDG No.: 0617___ SAS No.: _____ Case No.: <u>SH191</u> Lab Code: <u>10195</u> Lab Sample ID: 8678010 Matrix: (soil/water) WATER_ Lab File ID: C3731 5.0 (g/mL) <u>ML</u> Sample wt/vol: Date Received: <u>06/18/91</u> (low/med) <u>LOW</u> Level: Date Analyzed: 06/19/91 % Moisture: not dec. Dilution Factor: 1.0____ Column: (pack/cap) PACK **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L COMPOUND CAS NO. IU 74-87-3----Chloromethane__ 74-83-9----Bromomethane 10 ΙU 10 lυ | 75-01-4-----Vinyl Chloride_____ JU 10 75-00-3-----Chloroethane_ 75-09-2----Methylene Chloride__ 5 ΙU 67-64-1----Acetone 13 ΙB 75-15-0-----Carbon Disulfide_ 5 lu lu 75-35-4----1,1-Dichloroethene__ 5 Įυ 75-34-3----1,1-Dichloroethane_ ΙU 540-59-0----1,2-Dichloroethene (total)___ 5 ΙU 67-66-3-----Chloroform_ 5 :107-06-2----1,2-Dichloroethane U 5 10 |U 78-93-3----2-Butanone_ 5 ١u 71-55-6-----1,1,1-Trichloroethane_ 5 56-23-5-----Carbon Tetrachloride___ lu Įυ 10 5 'lu | 75-27-4-----Bromodichloromethane_ | 78-87-5-----1,2-Dichloropropane | 10061-01-5----cis-1,3-Dichloropropene 5 U 5 IU 5 U 79-01-6----Trichloroethene_ าเป | 124-48-1-----Dibromochloromethane_ Įυ | 79-00-5-----1,1,2-Trichloroethane_ 5 ΙU 71-43-2----Benzene_ 10061-02-6----Trans-1,3-Dichloropropene_ 5 ΙU U 75-25-2----Bromoform_ 108-10-1----4-Methyl-2-Pentanone_ 6 IJ 10 Įυ 591-78-6----2-Hexanone_ | 127-18-4----Tetrachloroethene_ lυ _____1,1,2,2-Tetrachloroethane_ ____Toluene___ lυ 5 79-34-5ĺU 5 108-88-3--5 U ____Chlorobenzene_ 108-90-7-----Ethylbenzene___ ----Styrene____ 5 U ĺυ 100-42-5-----Xylenes (total)_ 1330-20-7---

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY	IDENTIFIED	COMPOUNDS		
			 9159-7-	
		Contract.		

Lab	Name:	NYTEST ENV	INC	CONTEN ACC.	3110110	

Case No.: SH191 SAS No.: ____ SDG No.: 0617 Lab Code: <u>10195</u>

Lab Sample ID: <u>8678010</u> Matrix: (soil/water) WATER

Lab File ID: C3731 5.0 (g/mL) <u>ML</u> Sample wt/vol:

Date Received: 06/18/91 Level: (low/med) LOW_

Date Analyzed: <u>06/19/91</u> % Moisture: not dec. ____

Dilution Factor: 1.0 Column (pack/cap) PACK

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Number TICs found: __0

1		1	•		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	Ì
				====	į
l		l	1	!	١

nytest environmental.ic

Form II

WATER VOLATILE SURROGATE RECOVERY

Lab Name: NYTEST ENV INC

Contract: 9118118

	EPA	S1	S2	S3	OTHER	TOT	į
	-SAMPLE NO	(TOL)#	(BFB)#	(DCE)#		OUT	ı
	=======================================					===	ĺ
01	9159-1	98	101	93		0	l
02	19159-2	100	104	95	l. <u>.</u> [_0_	
	3 9159-2DL	97	91	96	1	0	١
	19159-3	98	94	97		0	l
0	5 9159-4	96	93	95	1	0	I
	5 9159-5	100	98	94	1	0	١
	7 9159-5DUP	97	103	95	ļ	0	
	3 9159-6	99	101	94	1	0	
	9 9159-7	102	96	91	1	0	
	D MSB	96	91	98	1	0	
1	1 9159-5MS	95	89	96		0	
	2 9159-5MSD	97	90	96		0	ļ
	3 VBLKC8	97	101	93	1	0	
-	4 I VBLKC9	98	92	93		0	
• -	1	i _	Ì		.	.	
	l						

QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)

S2 (BFB) = Bromofluorobenzene (86-115)

S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

nytest environmental...

Form III

00048

Lab Name: NYTEST ENV INC Contract: 9118118

Matrix Spike - EPA Sample No.: 9159-5

and the second of the second of	- <u> </u>	 	· ·	 		 .
	SPIKE	SAMPLE	MS	MS	QC	Ì
i	ADDED	CONCENTRATION	CONCENTRATION	8	LIMI	TS
COMPOUND	(ug/L)	(ug/L)	(ug/L)	REC #	REC.	•
				=====	= ====	==
1.1-Dichloroethene	50.0	0	48.8	98	61-14	
Trichloroethene	50.0	17.2	62.9	91	71-1	
Benzene	50.0	17.2	50.7		* 76 –13	
Toluene	50.0	14.1	51.3	74	* 76-1	.25
Chlorobenzene	50.0	33.7	83.7	100	75-1	30
	1	l	I	1	_	

 COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L) ===========	MSD % REC #	% RPO #	QC L: RPD 	IMITS REC.
1,1-Dichloroethene	50.0	46.9	94		14	61-145
Trichloroethene	50.0	62.2	90		14	71-120
Benzene	50.0	48.6	63 *		11	76-127
Toluene	50.0	50.3	72 *		13	76-125
Chlorobenzene	50.0	83.7	100		13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: __0 out of __5 outside limits
Spike Recovery: __4 out of __10 outside limits

COMMENTS: NYSDEC,9159-5,8678005,RECD6/18/91

SML.INST C

nytest environmental...

34

WATER VOLATILE MATRIX SPIKE BLANK

Lab Name: NYTEST ENV INC

Lab Code: NYTEST

Matrix Spike Sample No.:

Contract: 9118118 Case No.: SH191 SDG#: 0617

Log In: 8678 - -

File No.: C3741

[[COMPOUND	SPIKE ADDED (ug/L)	BLANK CONCENTRATION (ug/L)	MS CONCENTRATION (Ug/L)	MS % REC	#	QC LIMITS REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50	0.0	44.0 47.0 46.0 49.0 50.0	94 92 98	OK OK OK OK	75 - 125 75 - 125 75 - 125

#Column to be used to flag recovery values with an asterix

*Values outside of QC limits

Spike Recovery: 0 of 5 outside QC limits

nytest environmental.inc

Form IV

00054

4A VOLATILE METHOD BLANK SUMMARY

tab Name: NYTEST ENV INC	Contract: <u>9118118</u> -	<u> </u>
Lab Code: <u>10195 Case No.: SH191</u>	SAS No.: SDG N	o.: <u>0617</u>
Lab File ID: <u>C3720</u>	Lab Sample ID: <u>VB</u>	LKC8
Date Analyzed: 06/19/91	Time Analyzed:	1124
Matrix: (soil/water) WATER_	Level:(low/med)	LOW
Instrument ID: <u>C</u>		

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA	LAB	LAB	TIME
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
			========
01 9159-1	8678001	C3724	1425
02 9159-2	8678002	C3725	1519
03 9159-5	8678005	C3728	1759
04 9159-5DUP	8678006	C3729	1852
05 9159-6	8678009	C3730	1945
06 9159-7	8678010	C3731	2038
		<u> </u>	.

COMMENTS: VBLKC8

SML, INST C

--- -- | - VBLKC8 _____Contract: 9118118__ Lab Name: NYTEST ENV INC SDG No.: 0617 Case No.: <u>SH191</u> SAS No.: ____ Lab Code: <u>10195</u>___ Lab Sample ID: VBLKC8 Matrix: (soil/water) WATER_ 5.0 (g/mL) <u>ML</u> Lab File ID: C3720 Sample wt/vol: Date Received: Level: (low/med) LOW Date Analyzed: 06/19/91 % Moisture: not dec. _ Dilution Factor: 1.0 Column: (pack/cap) PACK **CONCENTRATION UNITS:** COMPOUND (ug/L or ug/Kg) <u>UG/L</u> CAS NO. lu 10 | 74-87-3------Chloromethane__ U 1 74-83-9-----Bromomethane_ 10 10 Įυ | 75-01-4-----Vinyl Chloride_____ 10 U 75-00-3----Chloroethane_ 75-09-2----Methylene Chloride__ 5 Ìυ 67-64-1-----Acetone_ 13 75-15-0----Carbon Disulfide ΙU 5 IU 75-35-4----1,1-Dichloroethene_ 75-34-3----1,1-Dichloroethane_ Įυ ~ 5 lu 540-59-0----1,2-Dichloroethene (total)___ 67-66-3----Chloroform_ U lu 5 107-06-2----1,2-Dichloroethane_ 10 ΙU 78-93-3----2-Butanone_ 71-55-6-----1,1,1-Trichloroethane__ 5 IU 5 ΙU | 56-23-5-----Carbon Tetrachloride___ 10 U 108-05-4-----Vinyl Acetate_ 75-27-4----Bromodichloromethane ริไบิ 5 lu 78-87-5-----1,2-Dichloropropane_ 5 IU | 10061-01-5----cis-1,3-Dichloropropene_ 5 10 79-01-6----Trichloroethene_ 124-48-1----Dibromochloromethane_ 5 U 79-00-5-----1,1,2-Trichloroethane_ 5 U lυ 71-43-2----Benzene_ 10061-02-6----Trans-1,3-Dichloropropene_ 5 lυ ·IU 75-25-2----Bromoform_ | 108-10-1-----4-Methyl-2-Pentanone U 10 | 591-78-6----2-Hexanone_ 10 ΙU 127-18-4----Tetrachloroethene ๆบ 5 79-34-5-----1,1,2,2-Tetrachloroethane_ ΙU 108-88-3------Toluene____ 5 IU Įυ | 108-90-7------Chlorobenzene__ | 100-41-4-----Ethylbenzene___ 5 lu 5 U 100-42-5----Styrene_

1330-20-7-----Xylenes (total)

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

LEN SHIPEL NO.	EPA SAMPLE NO	
----------------	---------------	--

	VBLKC8		
-			

Lab Name: NYTEST E	VV INC Contrac	t: 9118118
Lab Code: 10195	Case No.: SH191 SAS No	.:SDG No.: <u>0617</u>
Matrix: (soil/wate	r) <u>WATER</u>	Lab Sample ID: VBLKC8
Sample wt/vol:	5.0 (g/mL) ML	Lab File ID: C3720
Level: (low/med) LOW	Date Received:
% Moisture: not de	c	Date Analyzed: 06/19/91
Column (pack/cap) PACK	Dilution Factor: 1.0
Number TICs found:		CENTRATION UNITS: /L or ug/Kg) <u>UG/L</u>
CAS NUMBER	COMPOUND NAME	RT EST. CONC.
		<u> </u>

VOLATILE METHOD BLANK SUMMARY

Lab Name: NYTEST ENV INC Contract: 9118118

*Lab File ID: <u>C3735</u>

Lab Sample ID: VBLKC9

Date Analyzed:

<u>06/20/91</u>

Time Analyzed:

Matrix: (soil/water) WATER_

Level:(low/med)

LOW

- -- Instrument ID:- -- C ___-

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA	LAB SAMPLE ID	LAB	TIME ANALYZED
SAMPLE NO.			========
01 9159-2DL 02 9159-3	8678002 8678003	C3738 C3736	1145 0959
03 9159-4	8678004	C3737	1053 1422
04 MSB 05 9159-5MS	MSB 8678007	C3741	1238
06 9159-5MSD	8678008 I	C3740	1330

COMMENTS:

VBLKC9

5ML, INST C

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: NYTEST ENV INC Con	tract: <u>9118118</u>	VBL	(C9	
Lab Code: <u>10195</u>	S No.:	SDG No.:	0617	
Matrix: (soil/water) WATER		.e ID: <u>V8LK</u>		
Sample wt/vol: 5.0 (g/mL) ML	Lab File	ID: <u>C373</u>	5	
Level: (low/med) LOW	Date Rece			
% Moisture: not dec	 Date Anal	yzed: <u>06/2</u>	0/91	
	Dilution	Factor: 1.0)	
Column: (pack/cap) <u>PACK</u>				
•	CONCENTRATION (
CAS NO. COMPOUND	(ug/L or ug/Kg)) <u>UG/L</u>	Q	
	ļ			
74-87-3Chloromethane			U	•
74-83-9Bromomethane			U	•
75-01-4Vinyl Chloride			lu l	
75-00-3Chloroethane			U	
75-09-2Methylene Chlorid	e		lu l	
67-64-1Acetone		10	U	
75-15-0Carbon Disulfide_	·	5	U	
75-35-41,1-Dichloroethen		5	U	
753431,1-Dichloroethan		5	U	
540-59-01,2-Dichloroethen	e (total)	5	U	
67-66-3Chloroform_		5	U	
107-06-21,2-Dichloroethan	e	5	U	
78-93-32-Butanone		10	U	•
71-55-61,1.1-Trichloroet	hane	5	U	
56-23-5Carbon Tetrachlor	ide	5	Įυ I	
108-05-4Vinyl Acetate	<u> </u>	10	U I	
75-27-4Bromodichlorometh	iane		Ìυ Ì	•
78-87-51,2-Dichloropropa	ne	5	(U)	
10061-01-5cis-1,3-Dichlorop	ropene	5	lu l	
79-01-6Trichloroethene_	<u></u> i	5	ju į	
1 124-48-1Dibromochlorometh	nane	5	įυ	
79-00-51,1,2-Trichloroet		5	iu i	
71-43-2Benzene		5	U	1
10061-02-6Trans-1,3-Dichlor	оргореле	• 5	iu i	,
75-25-2Bromoform	1	5	์ เบ	
108-10-14-Methyl-2-Pentar	rone	10	• וֹט	
		10	้าน	1
591-78-62-Hexanone 127-18-4Tetrachloroethen	<u> </u>	5	υ υ	İ
12/-18-4	oroethane I	5	ļυ	i
79-34-51,1,2,2-Tetrachl). As crimis)	5	U	i
108-88-3Toluene		5	ไก	1
108-90-7Chlorobenzene		5	lu	i
100-41-4Ethylbenzene		5 5	υ υ	· ·
100-42-5Styrene			. J.U	- v
1330-20-7Xylenes (total)_			· I·V	1

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

E	PA	SA	MP	LE	N	0	
---	----	----	----	----	---	---	--

Lab Name: NYTEST ENV INC	Contract: 9118118
Lab Code: <u>10195</u>	_ SAS No.: SDG No.: 0617_
Matrix: (soil/water) WATER	Lab Sample ID: VBLKC9
Sample wt/vol: 5.0 (g/mL)	ML Lab File ID: C3735
Level: (low/med) LOW	Date Received:
% Moisture: not dec	Date Analyzed: <u>06/20/91</u>
Column (pack/cap) <u>PACK</u>	Dilution Factor: 1.0
Number TICs found:0	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>
CAS NUMBER COMPOUND	i i i

MSB Lab Name: NYTEST ENV INC Contract: 9118118 Lab Code: 10195 Case No.: SH191 SAS No.: SDG No.: 0617 Lab Sample ID: Matrix: (soil/water) WATER_ MSB Lab File ID: C3741 5.0 (g/mL) <u>ML</u> Sample wt/vol: (low/med) LOW____ Date Received: <u>06/18/91</u> Level: Date Analyzed: 06/20/91 % Moisture: not dec. __ Dilution Factor: 1.0 Column: (pack/cap) PACK__ **CONCENTRATION UNITS:** COMPOUND (ug/L or ug/Kg) UG/L Q CAS NO. ΙU 74-87-3-----Chloromethane___ 10 74-83-9----Bromomethane__ U 10 75-01-4----Vinyl Chloride_ 10 75-00-3-----Chloroethane____ ΙU 10 | 75-09-2----Methylene Chloride__ 3 IJ 67-64-1----Acetone_ 32 75-15-0----Carbon Disulfide____ 5 lυ 75-35-4-----1,1-Dichloroethene_ 44 5 Įυ 67-66-3-----Chloroform____ lu 107-06-2----1,2-Dichloroethane_ 5 lυ | 78-93-3----2-Butanone_ ΙU 10 71-55-6----1,1,1-Trichloroethane___ 5 lu 56-23-5----Carbon Tetrachloride 5 ΙU . | 108-05-4-----Vinyl Acetate_ 10 Įυ 75-27-4----Bromodichloromethane Įυ 5 U 5 |U | 10061-01-5----cis-1,3-Dichloropropene___ 79-01-6----Trichloroethene_ 47 | 124-48-1-----Dibromochloromethane__ 5 lu 5 IU 79-00-5----1,1,2-Trichloroethane__ | 71-43-2----Benzene | 10061-02-6----Trans-1,3-Dichloropropene 46 5 U 75-25-2----Bromoform____ 5 . U | 108-10-1-----4-Methyl-2-Pentanone___ 10 lυ 591-78-6-----2-Hexanone__ 10 Įυ 127-18-4----Tetrachloroethene_ U 79-34-5----1,1,2,2-Tetrachloroethane_ 5 lu | 108-88-3----Toluene___ | 108-90-7-----Chlorobenzene__ 49 50 100-41-4----Ethylbenzene____ 5 IU | 100-42-5----Styrene lu 5 1330-20-7----Xylenes (total)_

REFERENCE NO. 36

To: 6:10	Date: 12 / 24 / 91
To: File From: Start T. McNaldy	Project Number: 900 2 - 10 - 1
From: Steven T. McNully Subject: Not metrics Techniques, Ltd.	Site Name: Janeco Industries, Inc
Carpine Dan Heart Co / Carpine Day and	
	many package of the volumetrics
Techniques, Ltd. (NOW-CLP) Data Pack	age. The entire data package
was obtained by MPI and was review	ved thru Quality Assurance / anality
Control procedures by an EPA contifie	ed data validation group, present
in the MPI office. The analytica	I resulted presented in this
report are the exact results present	ral in the data package.
,	
·	
. •	

from AKRF 64 andyzed

Analytical Results of TAL Metals in Soil Collected at Jameco milligrams per liter $\hat{\chi}^{\text{V}}$

	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3
	4-6	9-11	14-16	19-21	4-6	9-11	14-16	19-21	4-6	8-10
azzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz	1321.36	506.62	779.60	642.59	3183.33	1260.63	1595.25	559.27	829.37	1896.50
Antimony	U	U	U	U	U	Ü	U	U	Ü	U
Arsenic	1.85	8.25	1.42	2.45	2.67	2.52	2.75	1.20	4.5	6.75
Barium	6.55	4.12	3.90	3.67	9.36	6.48	5.12	3.19	3.09	6.38
Beryllium	· U	· U	U	U	U	บ	U	U	U	u
Cadmium	U	U	U	U	Ū	U	U	U	U	U
Calcium	4442.37	276.28	122.59	98.34	3692.98	4289.26	3228.31	437.63	106.57	102.74
Chromium (total)	5.87	4.12	3.40	3.51	29.93	33.94	28.62	5.70	2.99	8.13
Cobal t	7.35	7.15	5.85	6.75	8.30	7.15	6.30	5.35	6.30	6.95
Copper	6.15	6.46	3.25	4.06	76.75	77.71	54.09	14.60	6.15	14.25
Iron	3015.13	4342.82	1438.95	2050.42	4702.39	6216.87	7273.60	1814.28	1095.05	3082.47
Lead	U	· u	U	U	U	U	U	U	· U	U
Magnes i um	384.75	131.75	174.65	82.85	1164.60	1284:30	1041.45	218.75	65.75	128.25
Hanganese	52.70	22.10	20.40	13.50	28.95	30.15	22.60	25.15	21.70	34.20
Mercury	0.003	0.001	0.034	U	0.059	0.068	0.031	0.012	0.028	0.001
Nickel	16.19	2.55	ับ	28.18	52.70	42.10	60.39	8.46	5.83	18.27
Potassium	134.75	110.75	138.85	99.60	148.30	118.0	143.40	88.90	75.85	120.40
Selenium	1.31	1.35	2.65	3.41	1.95	2.65	2.30	1.65	5.20	3.55
Silver	U	U	U	U	u,	U	U	U	. u	U
Sodium	187.92	147.27	196.40	183.24	230.98	238.90	157.55	180.42	192.65	197.22
Thallium	1099.28	u	U	750.95	1688.76	2290.98	2932.12	U	380.37	1040.74
Vanadium	0.58	U	3.45	ั	2.94	1.60	5.08	U	U	1.06
Zinc	. 2.51	2.58	11.00	4.64	32.12	27.89	8.44	11.21	5.03	7.53
Cyanide (mg/kg)	·	บ	U	U	. U	U	U	U	·	U

Analytical Resul Collected at Jam milligrams per l

	MW-3	. MW-3	MW-4	MU-4	MW-4	MW-4	MW-5	MW-5	MW-S	MW-5
	14-16	18-21	4-6	8-12	14-16	18-21	4-6	9-11	14-18	19-21
22222222222222		2222222222	.======	**********	22202222222				***********	
Aluminum	876.78	743.16	2849.97	1083.26	752.75	715.18	2238.59	1406.16	554.58	477.63
Antimony	U	U	U ·	U	U	U	Ų	U	Ū	U
Arsenic	8.75	7.70	2.70	1.875	1.30	0.67	6.52	5.0	3.90	2.55
Barium	5.92	6.45	5.72	6.49	9.77	5.90	92.86	4.62	6.49	7.25
Beryllium	U	U	U	U	U	U	u	U	U	Ų
Cadmium	U	U	U	U	U	U	U	U	U	u
Calcium	119.24	142.37	134.55	121.20	90.41	145.15	2546.17	402.42	99.22	63.92
Chromium (total)	19.57	27.20	9.43	57.06	68.15	43.73	118.40	15.96	5.42	3.40
Cobalt	6.90	6.25	6.35	4.63	7.30	6.35	8.10	7.75	6.55	7.50
Copper	40.00	65.40	3.25	83.05	89.67	90.59	213.61	10.22	12.21	8.13
Iron	5624.86	4456.69	4046.48	2817.17	3311.97	2610.69	4795.17	5600.97	2292.68	1582.63
Lead	, U	U	U	U	U .	U	. 10.57	U	U	U
Magnesium	92.30	122.0	136.45	128.90	107.15	124.10	397.25	200.15	79.60	78.55
Manganese	29.15	19.50	25.40	18.05	17.10	14.0	48.40	42.45	7.85	7.20
Hercury	0.001	U	U	U	0.003	0.044	0.146	0.020	0.140	1.352
Nickel	13.42	40.57	28.65	33.70	37.90	42.52	80.33	42.11	8.36	20.71
Potassium	107.20	109.95	107.85	121.75	110.93	113.65	75.50	94.85	83.25	56.05
Selenium	2.30	3.87	3.25	2.70	2.0	1.05	4.0	1.6	1.30	2.75
Silver	· U	U	U	U	U	U	U	U	U	. U
Sodium	151.59	130.62	211.76	226.61	255.90 `	241.57	183.14	11.13	117.72	113.41
Thallium	1969.57	1462.74	1641.42	1124.62	1212.35	1014.05	1579.18	U	750.03	522.08
Vanadium	U	U	4.19	1.24	0.54	1.84	0.99	1.50	U	U
Zinc	12.07	15.51	16.55	11.94	11.47	11.97	80.56	14.56	19.04	6.85
Cyanide (mg/kg)	U	U	U	U	U	U	U	U	ប	U

U = Not Detected

Analytical Resul Collected at Jam milligrams per l

	MW-6	MW-6	MW-6	MW-6	B-7-L	8-7-L	B-7-L	B-8-L	8-8-L	B-8-L	B-9-08	B-10-08
	4-8	9-13	14-16	19-21	2-4	4-6	6-8	2-4	4-6	6-10	0-4	0-4
Aluminum	2337.35	1256.98	619.48	563.63	4763.03	3074.47	1897.94	4856.52	3792.69	1078.00	4066.84	6422.91
Antimony	u	U	U	U	U	U	u	U	u	u	U	11
Arsenic	12.25	4.7	1.75	1.44	5.5	12.25	6.87	1.20	7.80	2.15	9.67	170.85
Barium .	8.05	4.89	3.49	5.96	18.38	15.45	12.04	19.66	22.95	13.02	27.24	24.40
Beryllium	U	U	U	U	U	U	Ü	U	U	U		11
Cadmium	ū	Ū	Ü	u	ű	Ü	u·	ŭ	Ü	Ü		. u·
Calcium	333.43	150.03	130.48	110.09	7577.26	6473.47	4943.12	916.12	587.22	184.85	7904.26	4018.80
Chromium (total)	361.30	15.44	27.73	6.09	1046.89	326.85	294.24	114.91	3423.63	119.80	89.81	347.98
Cobalt	7.85	7.15	5.85	5.20	6.05	7.15	6.55	7.60	9.45	6.0	8.55	7.45
Copper	245.26	29.62	8.98	9.17	893.35	260.74	241.99	5643.26	3375.84	194.30	234.50	283.70
Iron	3088.85	3059.27	1517.37	1707.10	5722.94	4215.78	3607.52	161.91	3996.49	1820.20	6132.59	6371.80
Lead	41.48	U	U	U	87.77	29.36	U	u	420.46	U	21.47	30.70
Magnesium	202.65	161.05	125.60	128.50	421.20	374.55	329.50	303.50	152.70	104.65	353.85	357.95
Manganese	21.15	24.60	5.85	7.35	69.35	51.30	31.75	39.65	21.40	9.55	82.40	23.54
Mercury	0.207	U	0.023	U	0.063	0.178	0.016	0.060	0.055	0.012	0.095	0.139
Nickel	225.60	60.73	13.98	13.18	332.39	111.563	123.79	161.91	962.09	65.38	69.94	469.99
Potassium	136.25	141.25	99.25	57.35	282.80	319.40	255.50	282.20	346.60	145.0	236.50	655.70
Selenium	2.70	1.1	0.98	3.35	5.5	4.0	2.70	5.0	1.00	4.80	3.35	2.5
Silver	U	· U	U	U	U	U	U	U	U	U	U	U
Sodium	158.06	120.09	146.04	160.99	295.01	241.47	232.27	187.05	241.91	52.62	109.40	230.36
Thattium	960.20	1642.49	495.15	550.57	U	U	U	U	U	671.20	2123.19	U a
Vanadium	U	2.04	U	ีย	2.57	1.96	Ū	4,45	Ū	. U	3.98	4.51
Zinc .	129.99	13.53	5.03	4.58	375.33	92.36	100.75	71.08	859.16	46.62	185.62	170.85
Cyanide (mg/kg)	U	U	บ	U	. u	U	U	U	2.02	, u	U	U

Analytical Resul Collected at Jam milligrams per l

	B-11-T	B-12-T	B-13-T	B-14-T	B-15-T	SLUDGE SE	-SEDIMENT	LP-1	LP-2	LP-3	LP-4	LP-GRAB
	0-3	0-5	0-4	0-4	0-4							,
=======================================	**********	===========		.========	***********		.==========					
Aluminum	5650.58	4433.92	4262.37	4631.89	3916.64	4454.98	782.15	1264.67	907.26	862.16	864.79	2376.995
Antimony .	U	U	U	U	U	U	· U	ប	Ü	U	U	U
Arsenic	27.75	9.62	7.42	8.62	8.45	5.80	2.70	11.0	3.50	2.48	8.25	3.75
Barium	17.99	29.67	61.57	20.27	241.73	40.35	6.66	287.05	330.47	373.24	764.71	828.87
Beryllium	U	U	U	U	U	U	U	U	U	U	U	U
Cadmium	U	U	U	Ù	U	U	U	U	U	U	U	U
Calcium	2360.39	15942.78	8802.91	1992.54	1048.57	734.58	1701.89	276.79	284.62	326.96	259.82	195,39.
Chromium (total)	0.60	749.51	736.19	44.76	170.53	3801.93	8.49	473.90	799.79	1335.67	1093.48	2867.03
Cobal t	7.35	9.85	7.20	5.55	8.30	9.65	8.10	8.10	7.60	6.95	7.40	10.05
Copper	39.65	654.21	646.60	140.28	337.53	3645.68	26.51	182.18	496.39	298.53	279.60	906,16
Iron	0.81	10702.65	6112.46	5857.66	4403.32	4739.17	1355.92	2163.64	1784.40	1270.39	1884.85	3495.87
Lead	· U	84.73	71.64	Ū	24.16	556.37	U	U	21.89	47.62	38.59	157.57
Magnesium	350.65	969.40	412.60	313.85	248.50	178.40	304.90	154.30	165.80	71.50	138.65	196.75
Manganese	73.80	100.05	60.95	51.10	30.70	24.45	25.55	12.95	12.40	7.40	10.0	36.80
Mercury	0.066	0.044	0.312	0.071	0.116	0.068	U	0.001	0.001	0.011	U	0.134
Nickel	16.89	227.13	378.19	33.10	106.23	999.65	65.02	326.05	754.11	1094.66	937.95	2652.16
Potassium	318.70	213.90	523.80	537.30	210.00	487.0	103.20	97.25	71.45	67.75	88.15	112.25
Selenium	3.35	1.86	2.90	3.5	5.50	2.25	4.82	1.37	3.25	2.02	2.30	1.95
Silver	U	U	U	U	υ,	U	U	U	U	U	U	· U
Sodium	272.71	135.35	224.04	194.03	158.83	208.22	189.20	355.70	268.03	258.99	220.65	175.64
Thallium	2179.34	3619.69	U	U	U	U	472.63	U	578.71	410.16	522.79	1339.51
Vanadium	5.25	4.66	2.22	4.34	3.18	U	3.29	U	U	U	U	U
Zinc.	46.22	290.68	243.71	44.03	128.78	975.48	69.47	103.70	316.84	468.22	236.10	674.53
Cyanide (mg/kg)	·	U	U	. U	U	10.42	U	· U	. U	u	U	0.04

Toxicity Characteristic Leachate Procedure Results Collected at Jameco milligrams per liter

	Characteristic	MW-1 4-6	MW-1 9-11	MW-1 14-16	HW-1 19-21	Mu-2 4-6	ни-2 9-11	MW-2 14-16	MU-2 19-21	HW-3 4-6	MV-3 8-10
Arsenic	5.0	0.62	0.20	0.56	. 0.22	0.75	1.06	1.06	0.74	0.35	0.88
Barium	100.0	13.22	0.91	28.42	25.49	16.74	14.89	19.75	24.85	0.53	0.81
Cadmium	1.0	U	U	·U	U	U	, U	U	U	U	U
Chromium (total)	5.0	U	1.89	2.72	1.42	0.78	1.26	1.72	1.07	1.41	. 0.82
Lead	5.0	U .	U	U	U	U	U	U	U	U	U
Hercury	0.2	U	U	U	U	U	u	0.003	u	0.001	U
Selenium	1.0	1.35	1.43	1.15	1.53	1.42	1.55	1.30	1.65	2.04	1.58
Silver	5.0	U	U	U	U	U	U	U	U	U	U

Toxicity Characteristic Leachate Collected at Jameco milligrams per liter

	Toxicity Characteristic	MW-3 14-16	MW-3 18-21	HW-4 4-6	MW-4 8-12	MW-4 14-16	MW-4 18-21	MW-5 4-6	MW-5 9-11	MV-5 14-18	MW-5 19-21
Arsenic	· 5.0	0.59	0.64	0.92	1.10	0.51	0.27	0.69	0.67	0.22	0.67
8arium -	100.0	2.48	21.62	25.14	21.25	23.57	22.93	35.07	18.82	34.38	35.26
Cadmium	1.0	U	บ	U	· u	U	U	U	U	U	U
Chromium (total	5.0	1.88	2.38	6.00	2.70	3.45	3.59	0.25	4.10	2.91	3.01
Lead ·	5.0	U ,	U . ´	U .	U	u	U	U	u	U	· U
Hercury	0.2	U	U	U	U	0.001	U	U	U	0.001	0.002
Selenium	1.0	1.59	1.35	1.35	1.16	1.35	0.96	2.1	1.35	2.20	1.95
Silver	5.0	u	υŢ	U .	1.49	U	Ú	U	U	U	0

Toxicity Characteristic Leachate Collected at Jameco milligrams per liter

	Toxicity Characteristic	MW-6 4-8	MW-6 9-13	MW-6 14-16	MW-6 19-21	B-7-L 2-4	B-7-L 4-6	8-7-L	8-8-L	B-8-L	B-8-L
Arsenic	5.0	U	0.62	0.66	22222222	*********	222222222	6-8 =========	2-4 ========	4-6 =========	6-10
Barium	100.0			0.00	0.49	0.53	0.78	0.24	0.54	0.60	0.55
	100.0	17.01	16.84	16.96	69.88	13.67	29.99	20.84	15.87	87	
Cadmium	1.0	U	U	U	U	••			13.01	23.36	29.62
Chromium (total	5.0	7 7/				U	U	U	U	U	U
		3.24	2.75	2.57	2.94	0.58	2.01	10.05	0.84	50.55	
Lead	5.0	Ü	U	. U	U	4.			0.04	20.22	2.06
Mercury	0.2	0.004			J	U	U	U	U	7.11	U
	7. L	0.001	U	U	0.001	0.004	U	U	U	0.044	
Selenium	1.0	1.40	3.38	2.15	1.60	4 55	_		·	0.011	0.002
Silver	5.0				1.00	1.55	1.30	0.96	1.42	0.30	2.25
		U	U	U	U	U	· U	U	U	U	5 0
Silver	5.0	U	U	U	U					0.30 U	2.25 · U

Toxicity Characteristic Leachate Collected at Jameco milligrams per liter

	Toxicity	B-9-0B	B-10-0B	B-11-T	B-12-T	B-13-T	B-14-T	B-15-T	SLUDGE SD-	-SEDIMENT
	Characteristic	0-4	0-4	0-3	0-5	0-4	. 0-4	0-4		
8282232222222	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			=======================================		=======================================	332263333669		:===========	
Arsenic	5.0	0.74	0.75	0.51	0.92	0.86	0.68	0.78	0.65	0.59
Barium	100.0	19.30	19.76	13.27	16.17	31.19	25.84	97.72	26.42	13.92
Cadmium	1.0	U	U	. U	Ų	U	U	u	U	U .
Chromium (total	5.0	0.47	5.80	0.60	0.85	10.95	1.61	U	91.80	U
Lead	5.0	U	U	U	u	U	U	U	14.09	· U
Mercury	0.2	U	U	U	0.001	0.008	U	0.001	0.043	'n
Selenium	1.0	1.16	1.30	1.16	1.60	2.0	1.60	1.30	1.54	2.18
Silver	5.0	U	U _.	U	U	U	U	U	U	U

Toxicity Characteristic Leachate Collected at Jameco milligrams per liter

	Toxicity Characteristic	LP-1	LP-2	LP-3	LP-4	LP-GRAB
***********			.=========		==========	*******
Arsenic	5.0	0.26	0.57	0.77	0.62	1.13
Barium	100.0	29.70	35.15	21.43	33.45	16.97
Cadmium	1.0	U	U	U	U	U
Chromium (total	5.0	5.08	21.75	38.48	30.08	47.32
Lead	5.0	U	U	U	Ů	U
Mercury	0.2	u	U	· U	U	0.003
Selenium	1.0	2.09	1.65	2.0	2.02	1.43
Silver	5.0	u	υ.	U	U	0.63

Analytical Results of Volatile Organic Compounds in Soil Samples Collected at Jameco micrograms per liter 2^{ℓ}

	MW-1	MW-1	MW-1	MW-1	MV-2	MV-2	MV-2	MV-2	HV-3	MW-3
	4-6	9-11	14-16	19-21	4-6	9-11	14-16	19-21	4-6	8-10
Chloromethane	========= U	 U	======== U	======== U	======== U	######################################	======= . U	======================================	======== U	11
Bromomethane	u	ıı		ű		ii ii		ü	ı,	
Vinyl Chloride				ü		Ü			. 11	
Chloroethane					Ü			U	ü	ü
Methylene Chloride		i i				Ü				Ü
2-Ciloroethylvinyl Ether	U	·								
1,2-Dichlorobenzene			, II		. 11					
1,3-Dichlorobenzene								U U		
•										
1,1-Dichloroethane										
1,4-Dichlorobenzene				· ·						
Chloroform	U	u								
1,2-Dichloroethane	U	Ų	. U	U	u		Ü	U	U	
Trans-1,2-Dichloroethene	Ų	U	U	U	U	U	Ų	Ų	U	U
1,1,1-Trichloroethane	U	U	U	U	U	U	U	U	U	U
Carbon Tetrachloride	, U	U	U	U	U	U	U	U	U.	Ų
Trichlorofluoromethane	U	U	U	U	U	U	U	Ü	U	Ü
Bromodichloromethane	U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	U	U	U
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	U	U	ប
Trichloroethene	U	U	U	บ	U	บ	U	υ	U	U
Dibromochloromethane	· u	. U	U	· U	U	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U	U	U	U
Benzene	U	U	U	บ	U	U	U	U	U	U
1,3-Dichloropropene-cis	U	U	U	U	U		U	U	U	U
Tetrachloroethene	U	U	U	U	U	U	บ	U	U	U
1,1,2,2-Tetrachloroethane	U	U	U	U	Ū	U	U	U	U	U
Toluene	. 0	U	U	'n	U	U	U	, U	· U	U
Ch l orobenzene	U	U	U	บ	U	Ü	U	U	U	U
Ethylbenzene	U	, U	U	U	U	U	U	U	U	U
TOTAL VOLATILE ORGANICS	0	. 0	0	0	0	0	0	0	0	0

U = Not Detected

J = Estimated Value

Analytical Results of Volati Collected at Jameco micrograms per liter

micrograms per liter	MW-3	HW-3	MU-4	MU-4	MW-4	MW-4	MV-5	MW-5	MV-5 14-18	MW-5 19-21
	14-16	18-20	4-6	8-12	14-16	18-21	4-6	9-11		
chloromethane	 U	 V	. U	======== U		 U	:======= U	::::::::::::::::::::::::::::::::::::::	222222222 U	U
Bromomethane	U	U	U	บ	U	Ü	U	. U	U	U
Vinyl Chloride	U	U	U	U '	U	U	U	U	U	U
Chloroethane	υ	U	· U	U	U	U	ับ	U	U	U
Methylene Chloride	บ	U	U	U	U	U	U	U	Ū	U
2-Cjloroethylvinyl Ether	U	U	U	. U	U	Ú	U	U	U	U
1,2-Dichlorobenzene	บ	U	U	U	U	U	. Ù	U	U	٠. ن
1,3-Dichlorobenzene	U	. 0	U	U	U	U	ับ	U	บ	U
1,1-Dichloroethane	U	U	U	U	U	· U	U	U	U	, u
1,4-Dichlorobenzene	U	U	U	U.	U	U	U	U	U	U
Chloroform	U	U	U	U	U	U	U	U	Ü	U
1,2-Dichloroethane	U	U	U	U	U	U	U	U	U	U
Trans-1,2-Dichloroethene	U	U	U	U	U	U	U	U	, U	U
1,1,1-Trichloroethane	U	U	· u	U	U	. U	U	U	U	U
Carbon Tetrachloride	U	υ	U	Ü	U	U	บ	U	บ	U
Trichlorofluoromethane	U	U	U	U	U	U	บ	U	U	U
Bromodichloromethane	์ บ	U	U	U	ย	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	U	U	. U	U	U
Trans-1,3-Dichloropropene	U	U	U	, U	U	U	U	U	U	U
Trichloroethene	U	U	U	· U.	U	U	ប	U	U	IJ
Dibromochloromethane	บ	U	U	U	U	. U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	U	U	U	U	Ù	U	U
Benzene	U	U	ย	U	, u	U	u	U	บ	U
1,3-Dichloropropene-cis	U	U	u	Ü	U	U	U	U	U	. U
Tetrachloroethene	U	U	· U	U	U	. A	U	U	U	U
1,1,2,2-Tetrachloroethane	บ	U	U	U	U	U	U	U	U	, U
Toluene	U	, U	U	U	U	U	U	. U	U	U
Chlorobenzene	U	U	U	U	U	U	U	U	U	Ù
Ethylbenzene	U	. U	U	U	U	U	U	U	U	U
TOTAL VOLATILE ORGANICS	0	Ö	0	. 0	0	0	0	0	0	0

U = Not Detected

J = Estimated Value

Analytical Results of Volati Collected at Jameco micrograms per liter

	MW-6 4-8	MW-6 9-13	MW-6 14-16	MW-6" 19-21	8-7-L 2-4	B-7-L 4-6	B-7-L 6-8	8-8-L 2-4	B-8-L 4'-6	8-8-L 6-10
	***************************************		***************************************	=======================================						
Chloromethane	U	U	U	U	U	U 		-	U	U
Bromomethane	U 	U	. 0		U	U	U	U	U	U
Vinyl Chloride	U	U	U	U	U	U	U	U	· U	U
Chloroethane	U	U	U	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	· U	U	U	บ	U	U	U
2-Cjloroethylvinyl Ether	Ü	· U	Ð	U	U	U	U	ប	· U	U
1,2-Dichlorobenzene	Ū	U	U	U	U	U	บ	U	U	U
1,3-Dichtorobenzene	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U.	IJ	U	U	U	U	U
Chloroform	U	U	U	U	U	įυ	U	U	ีย	U
1,2-Dichloroethane	U	ប	U	U	U	U	U	U	U	U
Trans-1,2-Dichloroethene	U	U	U	U	· U	U	บ	Ü	υ	U
1,1,1-Trichloroethane	ប	U	U	U	U	U	Ü	U	U	U
Carbon Tetrachloride	U	U	U	Ü	U	U	U	U	U	ប
Trichlorofluoromethane	· U	U	U	U	U	U	U	U.	U	U
Bromodichloromethane	, U	U	U	U	U	U	U	U	U	U
1,2-Dichloropropane	U	U	U	U	U	. n	U	. U	U	U
Trans-1,3-Dichloropropene	U	U	U	U	U	U	U	· u	U	Ū
Trichloroethene	U	U	U	U	U	Ū	U	U	U	Ù
Dibromochloromethane	U	U	. U	U	U	U	U	U	· U	U
1,1,2-Trichloroethane	U	U	U	U	. u	U	U	U	U	U
Benzene	U	U	U	U	` . U	U	· U	U	υ	U
1,3-Dichloropropene-cis	U	U	U	Ü	U		Ū	U	U	U
Tetrachloroethene	. u	บ	U	· U	IJ	U	U	U	U	U
1,1,2,2-Tetrachloroethane	U	u	U	U	U	U	U	U	U	U
Toluene	Ü	U	Ū	U	Ü	. U	U	U	Ü	Ū
Chlorobenzene	Ü	. U	Ü	. u	U	U	Ü	U	U	U
Ethylbenzene	Ū.	. U	U	Ü	Ū	U	Ü	U	U	Ü
TOTAL VOLATILE ORGANICS	0	0	0	0	0	0	0	0	0	0

U = Not Detected

Analytical Results of Volati Collected at Jameco micrograms per liter

micrograms per titel	8-9-08	B-10-0B	B-11-T	B-12-T	B-13-T	B-14-T	8-15-T	SLUDGE	SD-SEDIMENT
•	0-4	0-4	0-3	0-5	0-4	0-4	0-4		•
Chloromethane		======== 'U		eeeeeeeee U	 U	======== V	========= U	==== ===== U	u U
Bromomethane	U	U	U	U	U	U	U	u	U
Vinyl Chloride	U	U	U	U	U	U	u	U	U
Chloroethane	U	U	U	U	U	U	U	U	U
Methylene Chloride	U	U	U	U	U	U	U	ι	U
2-Ciloroethylvinyl Ether	U	U	U	U	U	U	· U	U	U
1,2-Dichlorobenzene	U	U	U	U	U	U	U	L	U
1.3-Dichlorobenzene	U	U	U	U	U	U	U		
1,1-Dichloroethane	U	, U	U	U	U	U	U	ι	i U
1,4-Dichlorobenzene	U	U	U	U	บ	U	U	l) U
Chloroform -	. U	U	U	U	U	U	Ų	t	J U
1,2-Dichloroethane	U	U	U	U	u	· · · · · · · · · · · · · · · · · · ·	U	ı	ט נ
Trans-1,2-Dichloroethene	U	U	U	U	· U	· U	U	(ט נ
1,1,1-Trichloroethane	· u	' U	U	U	U	U	U		J U
Carbon Tetrachloride	U	U	U	U	U	U	ับ	. 1	J U
Trichlorofluoromethane	u	U	U	U	U	U	U	1	J U
Bromodichloromethane	u	ı U	U	U	U	. 0	U	(J U
1,2-Dichloropropane	. ·· u	ı u	U	U	U	Ų	U	(J U
Trans-1,3-Dichloropropene		ı U	U	U	U	U	U	1	J U
Trichloroethene	U	J U	ı . U	u	U	Ū	. U		ט נ
Dibromochloromethane	t) U	U	U	U	. u	Ū	(ט ע
1,1,2-Trichloroethane	L	J U	u	U	, υ	΄, υ	U	(U
Benzene	· • •) U	u	U	. U	U	U		u · u
1,3-Dichloropropene-cis	ι	JU	u	U	u	U	U	1	ט ע
Tetrachloroethene		j U	u	. U	U	u	ប	ı	U
1,1,2,2-Tetrachloroethane	·	J U	ı u	ı u	U	u	U		u u
Toluene	() t	U	ı u	u	U	U		U U
Chlorobenzene		J U	J U	J U	U	U	U		U U
Ethylbenzene	(J , L	J U) U	U	U	บ	_	U U
TOTAL VOLATILE ORGANICS	0	. 0	. 0	0.	0	0	0	0	0

U = Not Detected

J = Estimated Value

B = Detected in Method Blank

T = Detected Above Detection

Analytical Results of Volati Collected at Jameco micrograms per liter

	LP-1	LP-2	LP-3	LP-4	LP-GRAB
***************************************		:::::::::::::::::::::::::::::::::::::::	*********	:=======	*********
Chloromethane	U	U	U	บ	U
Bromomethane	U	U	U	U	U
Vinyl Chloride	U	U	U.	U	U
Chloroethane	U	U	U	U	U
Hethylene Chloride	U	U	U	U	U
2-Cjloroethylvinyl Ether	U	U	u	U	บ
1,2-Dichlorobenzene	U	U	U	U	. U
1,3-Dichlorobenzene	U	U	U	U	U
1,1-Dichloroethane	U	U	U	U	U
1,4-Dichlorobenzene	U	U	U	U	U
Chloroform	U	U	U	U	. 0
1,2-Dichloroethane	U	U	U	U	U
Trans-1,2-Dichloroethene	U	U	U	U	IJ
1,1,1-Trichloroethane	U	U	U	U	U
Carbon Tetrachloride	บ	U	U	U	. U
Trichlorofluoromethane	U	U	U	U	U
Bromodichloromethane	. U	U	, U	U	. U•
1,2-Dichloropropane	U	U	U	U	Ü
Trans-1,3-Dichloropropene	U	U	U	U	U
Trichloroethene	U	U	U	U	U
Dibromochloromethane	U	U	U	U	U
1,1,2-Trichloroethane	U	U	U	Ü	, u
Benzene .	U	U	U	. U	
1,3-Dichloropropene-cis	U	U	U	U	U
Tetrachloroethene	U	U	U	U	_
1,1,2,2-Tetrachloroethane	U	U	. "	u	_
Toluene	U	U	U	U	_
Chlorobenzene	U	U	. U	u	•
Ethylbenzen e	U		U	Ü	
TOTAL VOLATILE ORGANICS	0	0	0	0	0

U = Not Detected

j = Estimated Value

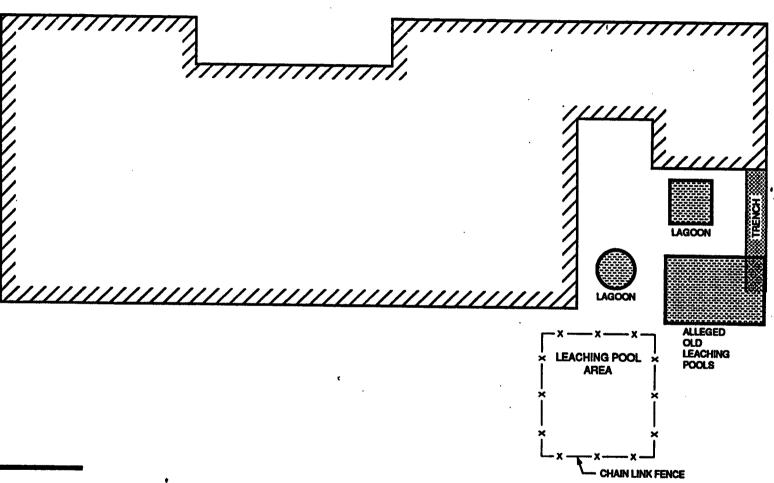
Analytical Results of TAL Metals in Water .
Collected at Jameco
milligrams per liter ...

	Guidance	Standard	tandard						Leaching	Production
		Value (ppb)	MV-1	MM-5	MV-3	MW-4	MW-5	MM-6	Pool	Well
Aluminum ·			 U	U	0.20	0.24	· U	U	 ປ	
Antimony	3		u [.]	U	U	u ·	บ	U	U	. U
Arsenic		25	0.01	0.01	U	U	0.01	0.01	0.01	0.01
Barium		1,000	0.06	0.10	0.03	0.02	2.19	0.24	0.05	0.42
Beryllium	3	•	Ų	, n	บ	U	U	. u	. U	U
Cadmium		10	Ú	U	U	. U	U	บ	U	U
Calcium	••		82.17	51.44	37.00	23.64	70.41	57.74 .	16.81	51.43
Chromium (total)		. 50	U	U	Ü	· U	0.01	0.01	0.03	u
Chromium (hexavalent)		50	U	U	U	· U	U	U	U	· u
Cobalt			0.12	0.11	0.10	0.11	0.13	0.10	0.16	0.12
Copper .	••	200	0.02	0.23	0.39	1.52	U	U	0.05	0.36
Iron	••	300	. 0.51	2.96	0.60	0.90	7.86	6.33	0.28	9.79
Lead		25 ·	· U	U	U	່ ນ	บ	Ū	U	
Magnesium	35,000	••	364.47	307.89	69.75	48.36	223.86	206.52	33.24	292.56
Manganese		300	0.77	0.68	0.33	0.09	0.29	0.28	U	0.72
Mercury	••	2	U	U	U	U	· U	IJ	Ü	U
Nickel		••	U	0.49	0.30	0.53	0.26	0.10	9.06	0.02
Potassium		••	2.38	1.23	, 3.95	1.267	3.361	5.02	0.937	2.248
Selenium		- 10	0.03	0.02	`0.03	0.05	0.03	0.02	0.04	0.02
Silver		50	U	· U	U	U	U	U	U	U
Sodium			25.71	12.87	321.49	341.06	19.63	12.39	357.29	29.87
Thallium	4		U	U	0.57	0.79	ย	U	U	U
Vanadium		••	U	· U	. u	U	U	U	Ū	ı
Zinc	**	300	0.03	0.35	0.09	. 0.14	0.11	0.03	0.07	0.17
Cyanide		100	U	u	· U	U	U	U	u	

Analytical Results of Volatile Organic Compounds in Water Samples
Collected at Jameco micrograms per liter

	NW-1	MM-S	MM-3	Nu-4	MW-5	MN-6	Leaching Pool	Production Well
Chioromethane	11	umaaaaaaaa U		. 	u versessessessesses U	 U) 	U
Bromomethane	ü	· u	ū	Ü	U	U	ι	ı U
Vinyl Chloride	Ü	ŭ	Ü	Ü	U	U	ι	ט ו
Chloroethane	ű	ű	Ū.	Ü	U		t	U
Methylene Chloride	ŭ	Ū	Ü	U	Ü	U	ι	. U
2-Chloroethylvinyl Ether	ū	U	Ü	U	U	U	L.	Ú
1,2-Dichlorobenzene	Ü	Ü	Ü	U	U	U	L	U
1,3-Dichlorobenzene	ü	Ū	Ū	Ü	U	·u	U	U
1,1-Dichloroethane	. u	Ū	U	. 0	· U	U	t	U,
1,4-Dichlorobenzene	ū	Ü	บ	U	U	U		U
Chloroform	U	Ū	Ü	U	U	U	ι	U
1,2-Dichloroethane	u	ū	Ū	Ü	U	. U	٠ .	U
Trans-1,2-Dichloroethene	u	ü	. u	U	U	U	U	U
1,1,1-Trichloroethane	Ü	. u	Ü	Ū	U	U	U	U
Carbon Tetrachloride	Ü	Ü	Ū	U	U	Ū	U	Ų
Trichlorofluoromethane	Ü	u	Ü	U	U	U	u	U
Bromodichloromethane	Ü	ū	Ū	U	U	U	u	U
1,2-Dichloropropane	u	Ü	ū	Ū	IJ	U	, u	U
Trans-1,3-Dichloropropene	· u	Ū	Ū	U	U	U	u	U
Trichloroethene	Ü	Ü		U	U	บ	u	U
Dibromochloromethane	Ü	Ü	Ū	บ	U	U	U	U
1,1,2-Trichloroethane		Ü	Ū	U	บ	U	U	บ
Benzene	Ü	Ū	Ū	U	U	U	U	v
1,3-Dichloropropene-cis	. 11	Ü	ū	U	U	U	U	U
Tetrachloroethene	u	u	Ü	Ū	Ü	U	U	U
1,1,2,2-Tetrachloroethane	11	ü	U	u	- U	Ü	U	u
Toluene	· n	· u	U	Ü	Ü	U	. 0	U
Chlorobenzene	11	n	П	u	Ü	Ü	U	U
Ethylbenzene	Ü	n	U	U	ū	Ü	บ	U
TOTAL VOLATILE ORGANICS	. 0	. 0	0	0	0	0	0	0

WYANDANCH AVENUE



LEGEND

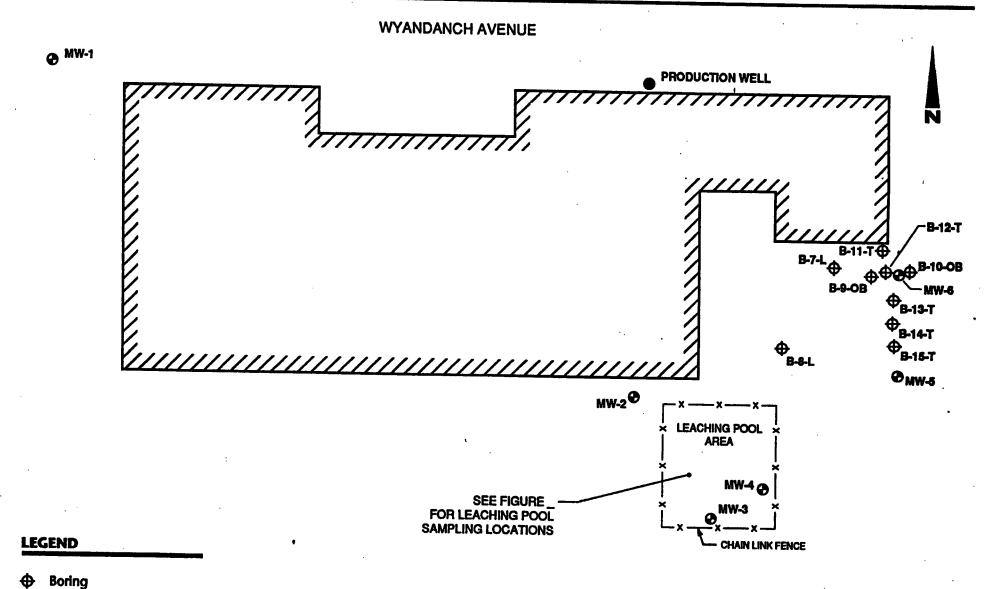
Previously Existing Structures (from 1969 survey)

Previous Sampling Area

0 100 FEET
SCALE

Figure _ Previously Existing Structures

JAMECO INDUSTRIES



0 100 FEET

Monitoring Well

Figure _ Sampling Locations

JAMECO INDUSTRIES

Figure _ Leaching Pool Samples

JAMECO INDUSTRIES

